

GDSN Trade Item Module Library Business Message Standard

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1.0.9	20 Aug 2015	Eric Kauz	Errata
1.1.0	05 Oct 2015	Eric Kauz	December 2015 ECL
1.1.1	15 Feb 2015	Eric Kauz	Maintenance Release
1.1.5	12 Oct 2016	Eric Kauz	Errata (see change summary)

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1 Business Domain View

1.1 Objective

To populate the GS1 Global Registry and report to data pools and their registered trading partners up to date data source party information.

1.2 Audience

The audience of this standard is any participant in the global supply chain. This includes retailers, manufacturers, service providers and other third parties.

1.3 References

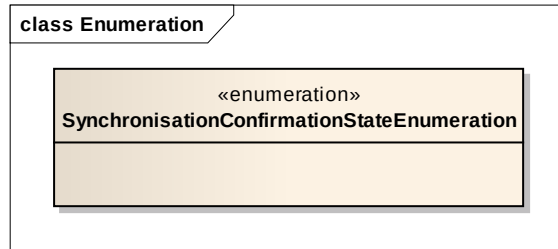
Reference Name	Description
BRAD For Major Release	

2 Business Context

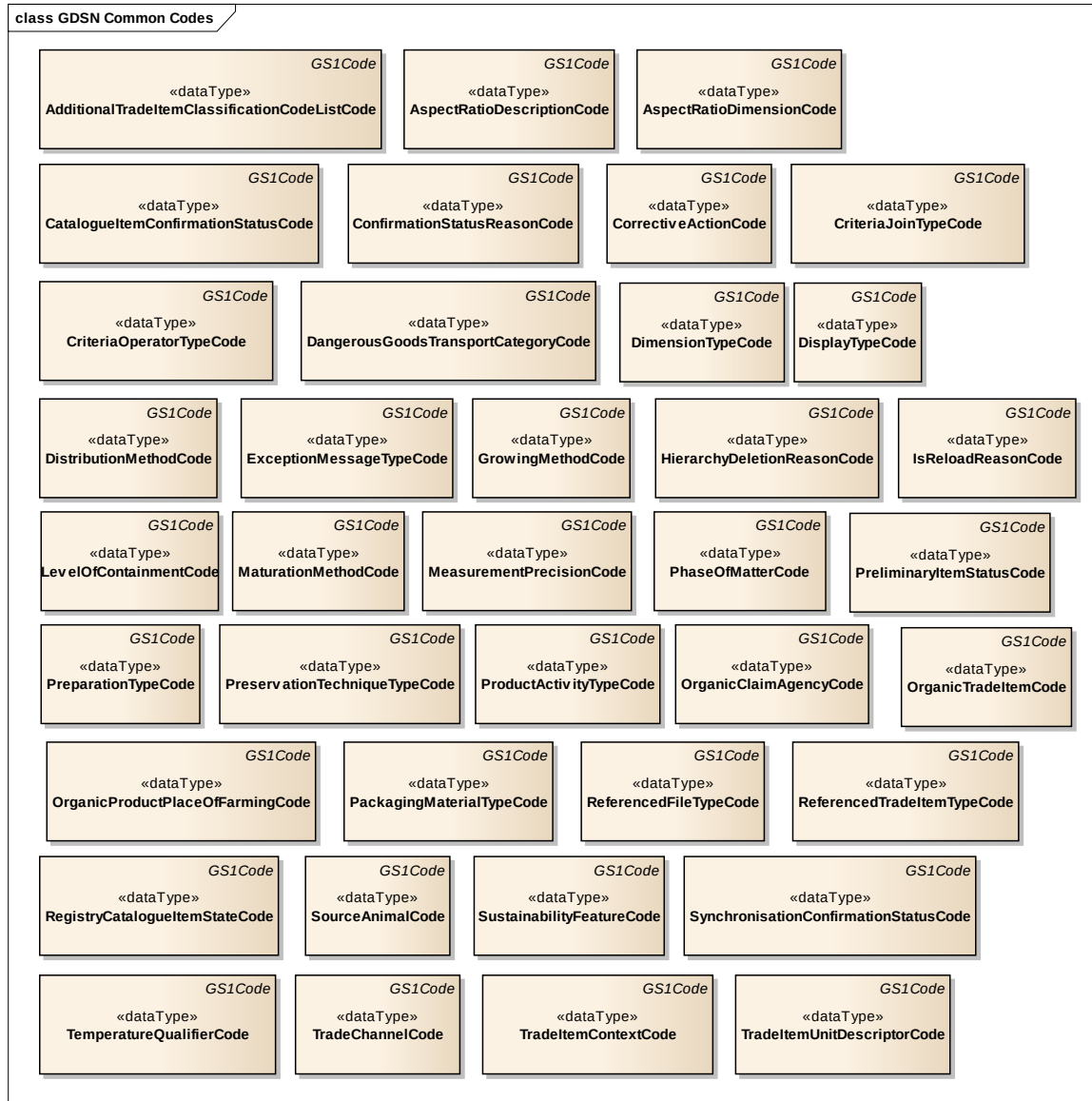
Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Distribute Product Information
System Capabilities	GDSN
Official Constraints	None

3. GDSN Common

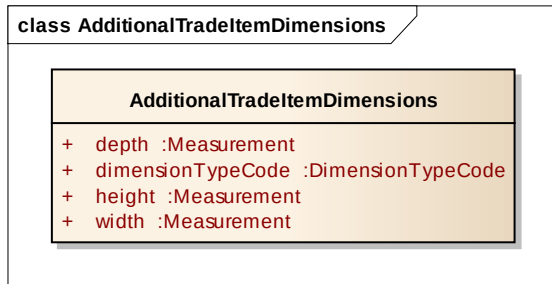
3.1. Enumeration



3.2. Code

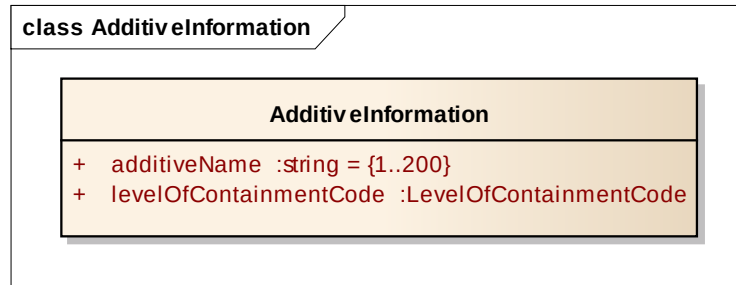


3.3. Additional Trade Item Dimensions



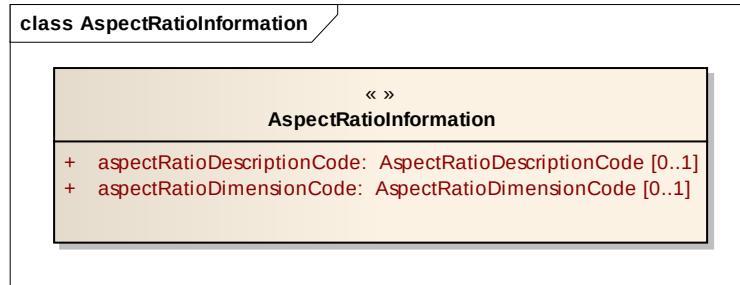
content	attribute / role	datatype /secondary class	multipl icity	definition
AdditionalTradeItemDimensions				The dimensions (depth, height, width) for a trade item in a variety of conditions (in box, out of box, etc).
Attribute	depth	Measurement	1..1	The depth of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform unless it is excluded according to the Pallet Type Code chosen.
Attribute	dimensionTypeCode	DimensionTypeCode	1..1	Depicts certain measurement scenarios (e.g. Retail Display, Out of package) used for measurement. □
Attribute	height	Measurement	1..1	The height of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform unless it is excluded according to the Pallet Type Code chosen.
Attribute	width	Measurement	1..1	The width of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform unless it is excluded according to the Pallet Type Code chosen.

3.4. Additive Information



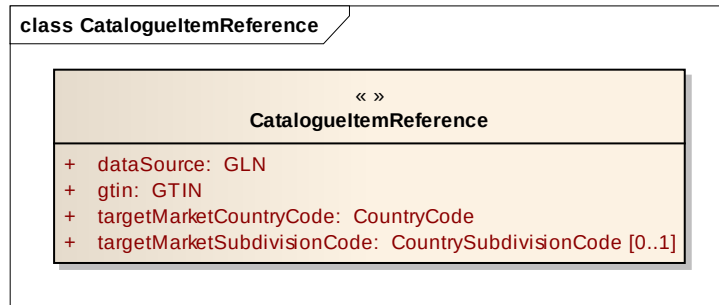
Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
AdditiveInformation				Information on presence or absence of additives or genetic modifications contained in the trade item.
Attribute	additiveName	string	1..1	The name of any additive or genetic modification contained or not contained in the trade item.
Attribute	levelOfContainmentCode	LevelOfContai nmentCode	1..1	Code indicating the level of presence of the additive.

3.5. Aspect Ratio Information



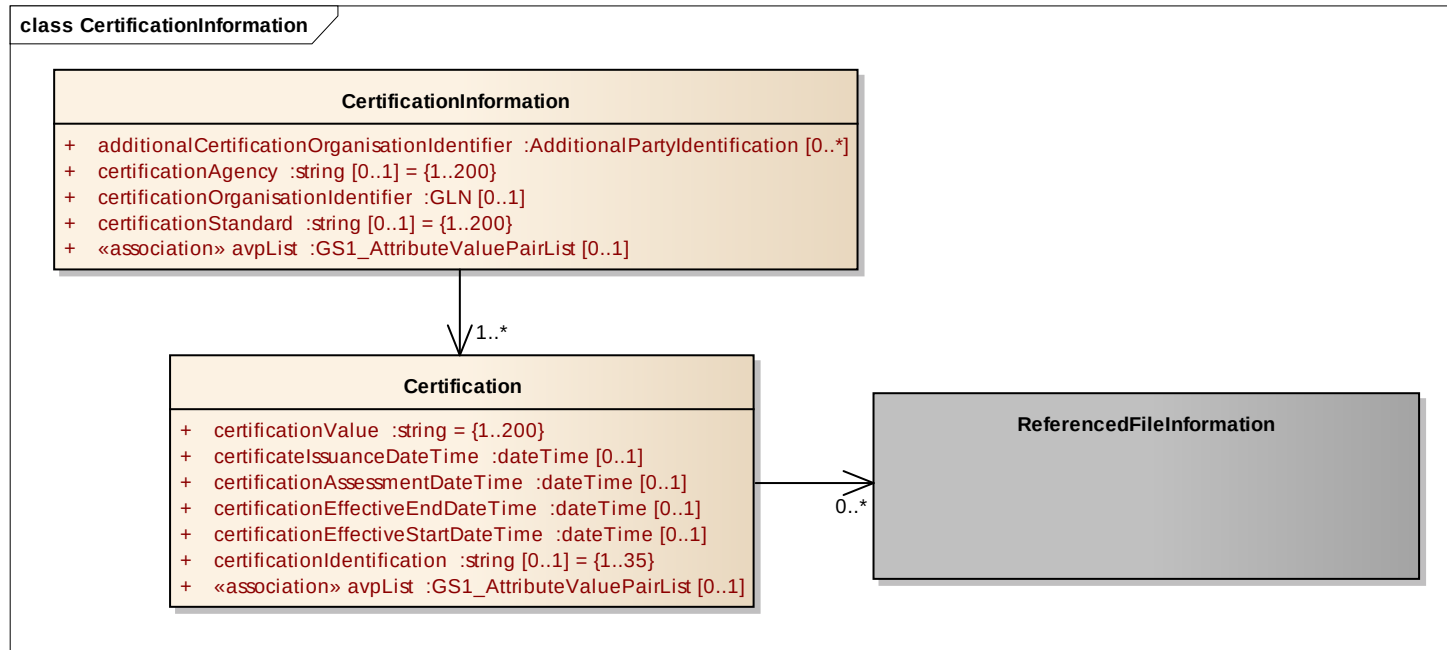
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
AspectRatioInformation				Logical grouping of attributes related to aspect ratio.
Attribute	aspectRatioDescriptionCode	AspectRatioDescriptionCode	0..1	A code that indicates the aspect ratio description for example ANAMORPHIC.
Attribute	aspectRatioDimensionCode	AspectRatioDimensionCode	0..1	A code that indicates the aspect ratio dimension.

3.6. Catalogue Item Reference



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Catalogue Item Reference				A class of information used to identify the key to the trade item information using the data source GLN, the GTIN, and the Target Market within the Global Data Synchronisation Network.
Attribute	dataSource	GLN	1..1	Entity that provides the global data synchronization network with Master Data. The Data Source is officially recognized as the owner of this data. For a given Item or Party, the source of data is responsible for permanent updates of the information under its responsibility.
Attribute	gtin	GTIN	1..1	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.
Attribute	targetMarketCountryCode	CountryCode	1..1	The code that identifies the target market. The target market is at country level or higher geographical definition and is where a trade-item is intended to be sold.
Attribute	targetMarketCountrySubdivisionCode	CountrySubdivisionCode	0..1	The Code for country sub-division definition used to indicate the geo-political subdivision of the target market (=country).

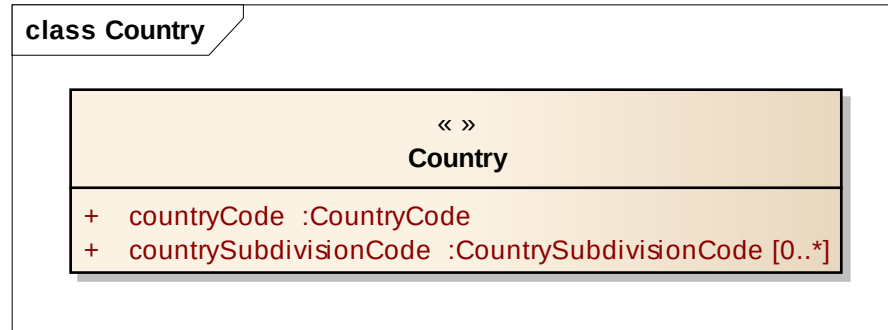
3.7. Certification Information



content	attribute / role	datatype /secondary class	multipl city	definition
Certification				Information on certification to which the trade item complies.
Association		ReferencedFileInfor mation	0..*	Provides URL and other information on a referenced electronic file.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	certificationIssuance DateTime	dateTime	0..1	The date and time that a certificate has been issued for a Trade Item.
Attribute	certificationAssessme ntDateTime	dateTime	0..1	The date and time that an assessment was performed on a Trade Item that led to a certification.
Attribute	certificationEffectiveE ndDateTime	dateTime	0..1	The date and time upon which the certification is no longer effective.

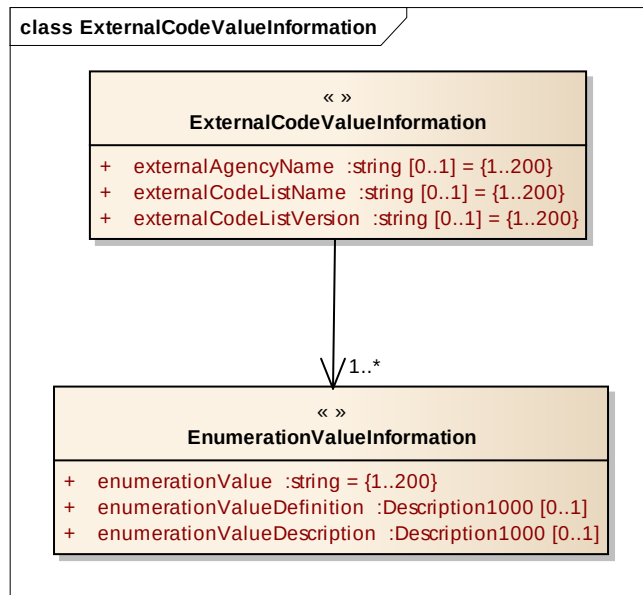
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	certificationEffectiveStartDateTime	dateTime	0..1	The date and time upon which the certification is effective.
Attribute	certificationIdentification	string	0..1	A reference issued to confirm that something has passed certification.
Attribute	certificationValue	string	1..1	The product's certification standard value. Example: 4
CertificationInformation				Information on certification standards to which the trade item, or the process by which it is manufactured, sourced or supplied complies.
Association		Certification	1..*	Information on certification to which the trade item complies.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	additionalCertificationOrganisationIdentifier	AdditionalPartyIdentification	0..*	Additional identification of the organization that issued the certificate number confirming that the Trade Item has gone through certification.
Attribute	certificationAgency	String	0..1	Name of the organization issuing the certification standard or other requirement being met. Free text field. Example: European Union.
Attribute	certificationOrganisationIdentifier	GLN	0..1	The identification of the organization that issued the certificate number confirming that the Trade Item has gone through certification.
Attribute	certificationStandard	string	0..1	Name of the certification standard. Free text. Example: Egg classification.

3.8. Country



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Country				Information on a country and any included subdivision.
Attribute	countryCode	countryCode	1..1	Code specifying a country.
Attribute	countrySubdivisionCode	countrySubdivisionCode	0..*	Code specifying a country subdivision.

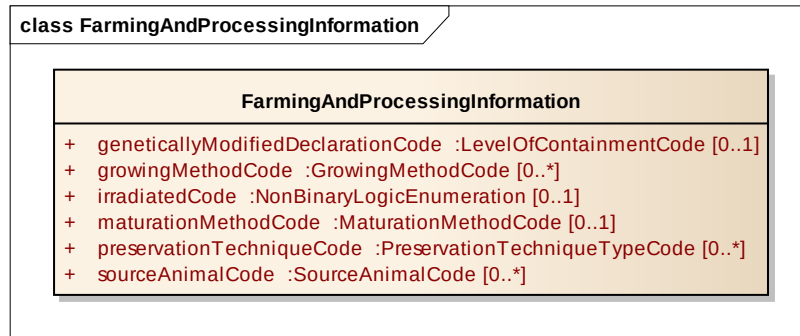
3.9. External Code Value Information



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Enumeration ValueInformation				A code list value that is maintained by an agency external to GS1.
Attribute	enumerationValue	string	1..1	Code List Value maintained by an external code list agency.
Attribute	enumerationValueDefinition	Description1000	0..1	Definition of the code list value maintained by an external code list agency

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	enumerationValueDescription	Description1000	0..1	Description of the value in a code list value maintained by an external code list agency. This is primarily used when code list values are sequential numbers.
ExternalCode ValueInformation				Class allowing for multiple code list values that are maintained by an agency external to GS1.
Association		EnumerationValueInformation	1..*	A code value for an external code list.
Attribute	externalAgencyName	string	0..1	The name of the agency that manages a code list external to GS1.
Attribute	externalCodeListName	string	0..1	The name of the code list maintained by an agency external to GS1.
Attribute	externalCodeListVersion	string	0..1	The version of the code list maintained by an agency external to GS1.

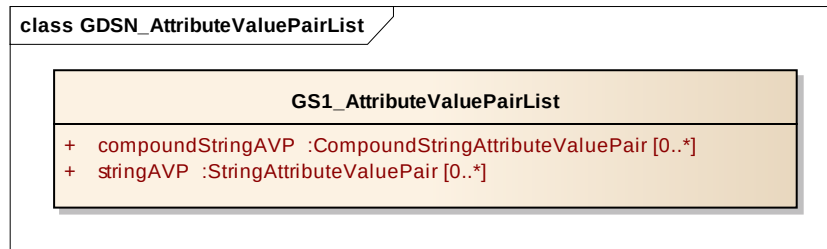
3.10. Farming and Processing Information

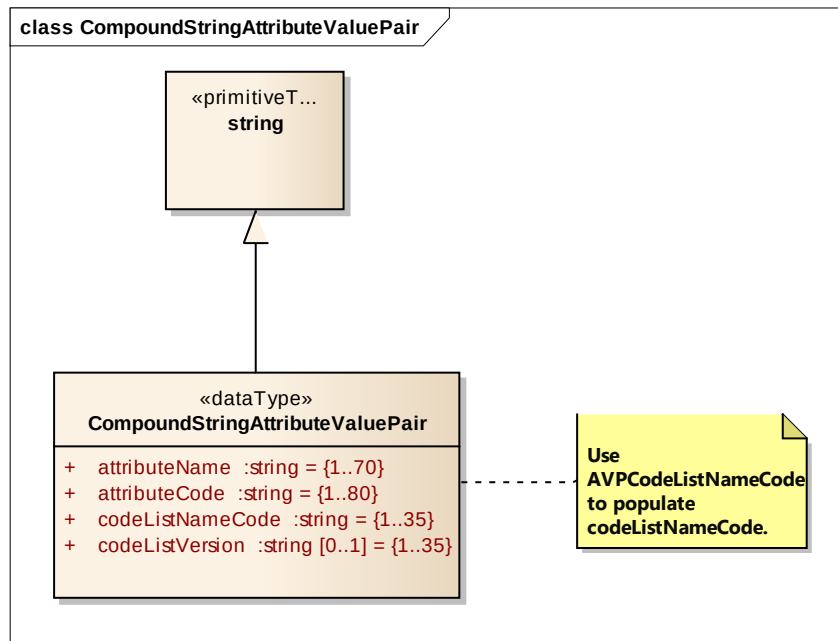


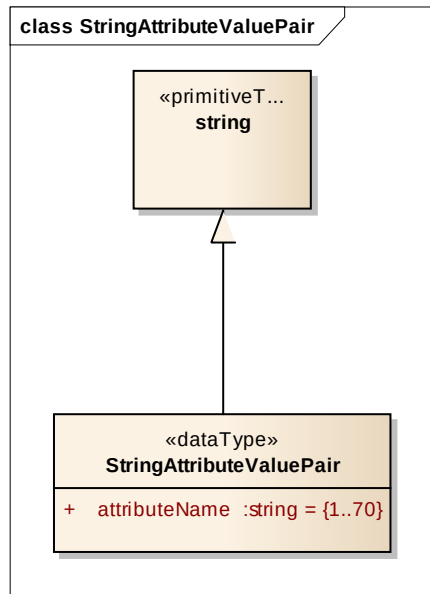
content	attribute / role	datatype /secondary class	multiplicity	definition
FarmingProcessing			0..1	Details on any methods and techniques used by a manufacturer or supplier to the trade item, ingredients or raw materials.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	geneticallyModifiedDeclarationCode	LevelOfContainmentCode	0..1	A statement of the presence or absence of genetically modified protein or DNA.
Attribute	growingMethodCode	growingMethodCode	0..*	The process through which the item has been grown,cultivated, reared, and/or raised.
Attribute	irradiatedCode	NonBinaryLogicEnumeration	0..1	Indicates if radiation has been applied.
Attribute	maturationMethodCode	MaturationMethodCode	0..1	The method of maturity for the item or ingredient for example tree ripened or jet fresh.
Attribute	preservationTechniqueCode	PreservationTechniqueTypeCode	0..*	Code value indicating the preservation technique used to preserve the product from deterioration.
Attribute	sourceAnimalCode	sourceAnimalCode	0..*	The source of raw material used to produce the food product for example a goat for milk.

3.11. GS1 Attribute Value Pair List



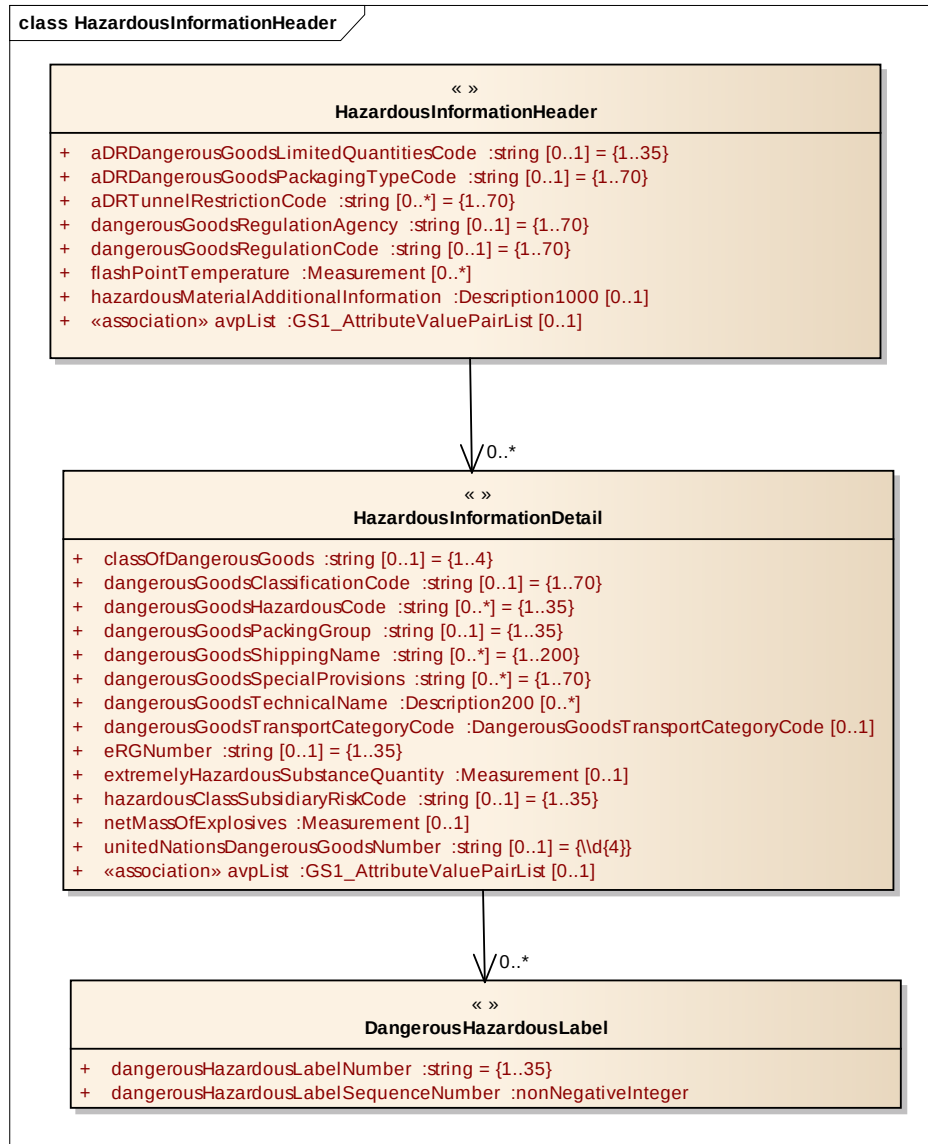




Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
GS1_AttributeValuePairList				The transmission of non-standard data done in a simple, flexible, and easy to use method.
	compoundStringAVP	CompoundStringAttributeValuePair	0..*	An attribute value pair that allows for a string and an associated qualifier (e.g. Unit Of Measure).
	stringAVP	StringAttributeValuePair	0..*	An attribute value pair that allows for string values.
CompoundStringAttributeValuePair				A data type that allows for temporary attributes along with associated qualifiers (e.g. unit of measure, currency code) introduced between minor versions.
	attributeName	String	1..1	The name of the temporary attribute being passed as an attribute value pair.
	attributeCode	String	1..1	The value associated with the codeListName for example ML for MEASUREMENT_CODE.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
	codeListNameCode	String	1..1	The code list qualifying the temporary attribute for example MEASUREMENT_CODE. Use AVPCodeListNameCode to populate codeListNameCode.
	codeListVersion	String	0..1	The version of the code list qualifying the temporary attribute.
StringAttributeValuePair				The transmission of non-standard data done in a simple, flexible, and easy to use method for simple text fields (no language).
	attributeName		1..1	The name of the temporary attribute being passed as an attribute value pair.

3.12. Hazardous Information Header



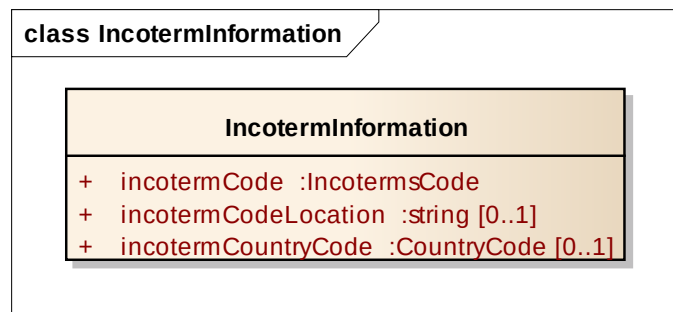
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
DangerousHazardousLabel				Information on visible labels on packaging indicating specific risks and required precautions associated with a dangerous/hazardous good.
Attribute	dangerousHazardousLabelNumber	string	1..1	A visible number indicating the specific risk and thus the required precautions associated with a dangerous or hazardous good for example, the indication of the hazardous label number according to chapter 3.2, table A of the ADR.
Attribute	dangerousHazardousLabelSequenceNumber	nonNegativeInteger	1..1	A sequence number indicating the primacy of one dangerous/hazardous label number over another. For example, a value of 1 would indicate that the associated hazard label number is the primary, 2 = secondary, etc.
HazardousInformationDetail				Details on hazardous information for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		DangerousHazardousLabel	0..*	Information on visible labels on packaging indicating specific risks and required precautions associated with a dangerous good.
Attribute	classOfDangerousGoods	string	0..1	The dangerous goods classification of the trade item. Dangerous classes explain in general terms the hazardous nature and properties of the goods and serves to classify them together in terms of their most significant risk. Recommend to use codes listed in the 16th edition of the UN Recommendations on the Transport of Dangerous Goods was published in 2009.
Attribute	dangerousGoodsClassificationCode	string	0..1	A classification code of the trade item (dangerous goods) for transport by road and rail for example ADR/RID. It indicates the dangerous characteristics respectively the subsections of the trade item within a given classification.
Attribute	dangerousGoodsHazardousCode	string	0..*	Dangerous goods hazard ID number, which must be applied to the vehicle, when transporting this trade item (dangerous good) by road or rail, to inform the police, the fire brigade and others in case of an accident about the kind of danger caused by the cargo.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	dangerousGoodsPack ingGroup	string	0..1	Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.
Attribute	dangerousGoodsShip pingName	string	0..*	Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.
Attribute	dangerousGoodsSpec ialProvisions	string	0..*	A numeric code of special regulations to be met regarding a Dangerous Goods Classification Regulation. For example ADR 2005 provides additional information for identifying the substances or items (s. 3.2.1 ADR 2005). Special provisions can include transport restrictions, exemptions from regulation, explanations on the classifying of certain forms of the dangerous goods in question as well as additional marking and labelling requirements.
Attribute	dangerousGoodsTech nicalName	Description200	0..*	Provides the dangerous goods technical information.
Attribute	dangerousGoodsTran sportCategoryCode	DangerousGoodsTrans portCategoryCode	0..1	Trade items classified as dangerous goods are divided into transport categories for the purpose of calculating what quantity of dangerous goods is allowed to be transported on the same transport unit under specific exemption rules.
Attribute	eRGNumber	string	0..1	A number used to find the correct section within the Emergency Response Guide. The ERG is a guide to first responders to quickly identify the material involved in an incident for example a fire or spill. It is derivative from the UN Number. Note: The ERG number is only required in the United States.
Attribute	extremelyHazardousS ubstanceQuantity	Measurement	0..1	The quantity of substance that is considered to be extremely hazardous under a regulatory threshold. For SARA, this is the threshold planning quantity in pounds per 40 Code of Federal Regulations (CFR) under section 302 of SARA Title 3.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	hazardousClassSubsidiaryRiskCode	string	0..1	A code determining a Secondary or Tertiary hazard related to a hazardous class for example corrosive.
Attribute	netMassOfExplosives	Measurement	0..1	The measurement of the net explosive mass of the trade item (dangerous goods) for transport by road and rail according to a dangerous goods classification regulation.
Attribute	unitedNationsDangerousGoodsNumber	string	0..1	The four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to classify a substance or a particular groups of substances. Abbreviation: UNDG Number. Recommend to use codes listed in the 16th edition of the UN Recommendations on the Transport of Dangerous Goods was published in 2009.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
HazardousInformationHeader				Hazardous Information for a trade item.
Association		HazardousInformationDetail	0..*	Hazardous detail for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	aDRDangerousGoodsLimitedQuantitiesCode	string	0..1	A code defined by RID (Regulations concerning the International Carriage of Dangerous Goods by Rail) and ADR (Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route) specifying whether a dangerous good can be packaged in small quantities providing they are packaged and labelled in accordance with certain requirements.
Attribute	aDRDangerousGoodsPackagingTypeCode	string	0..1	Approved packaging for ADR regulation. ADR regulations include packaging regulations, packaging types and requirements and testing regulations concerning packaging. Dangerous goods should be packed in a way that they remain in the package during transport. If a package or container meant for transportation of dangerous goods is damaged, it is forbidden to carry out the transport.

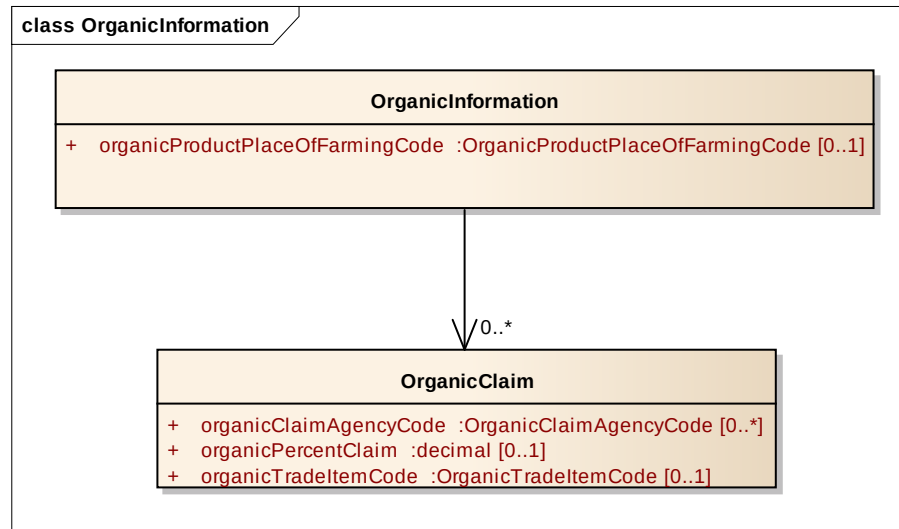
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	aDRTunnelRestriction Code	string	0..*	The ADR Tunnel Restriction Code is a code defined in ADR Chapter 8.6, which categorizes road tunnels into categories A to E. Adequate traffic signs regulate the transit of vehicles with dangerous goods. The tunnel restriction code (e.g. E) has to be stated within the transport papers. Trading Partners should look to the specific ADR documentation for current applicable code list values.
Attribute	dangerousGoodsRegulationAgency	string	0..1	An indication of the agency responsible for a classification system(s) of dangerous goods.
Attribute	dangerousGoodsRegulationCode	string	0..1	An indication of the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.
Attribute	flashPointTemperature	Measurement	0..*	The minimum temperature at which a liquid gives off a vapour within a vessel in sufficient concentration to form an ignitable mixture with air near the surface of a liquid.
Attribute	hazardousMaterialAdditionalInformation	Description1000	0..1	Any regulatory information required that is not specifically identified by another field.

3.13. Incoterm Information



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
IncotermInformation				Incoterms is an abbreviation for International Commercial Terms. The International Chamber of Commerce created and manages the Incoterms and their definitions. There are 13 available for use in the buyer-seller contractual agreements.
Attribute	incotermCode	IncotermsCode	1..1	Incoterms is an abbreviation for International Commercial Terms. The International Chamber of Commerce created and manages the Incoterms and their definitions. There are 13 available for use in the buyer-seller contractual agreements.
Attribute	incotermCodeLocation	string	0..1	A description of the location required by an Incoterm.
Attribute	incotermCountryCode	CountryCode	0..1	The location country code where the incoterm event (e.g. DDP Delivered Duty Paid) has occurred.

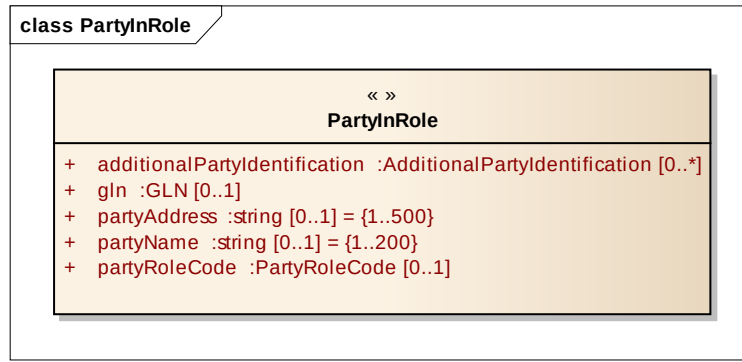
3.14. Organic Information



content	attribute / role	datatype /secondary class	multiplicity	definition
OrganicClaim				Any claim to indicate the organic status of a trade item or of one or more of its components.
Attribute	organicClaimAgencyCode	OrganicClaimAgencyCode	0..*	A governing body that creates and maintains standards related to organic products.
Attribute	organicPercentClaim	decimal	0..1	The percent of actual organic materials per weight of the trade item. This is usually claimed on the product.
Attribute	organicTradeItemCode	OrganicTradeItemCode	0..1	Used to indicate the organic status of a trade item or of one or more of its components.
OrganicInformation				Information on the organic nature of trade items.
Association		OrganicClaim	0..*	Any claim to indicate the organic status of a trade item or of one or more of its components.

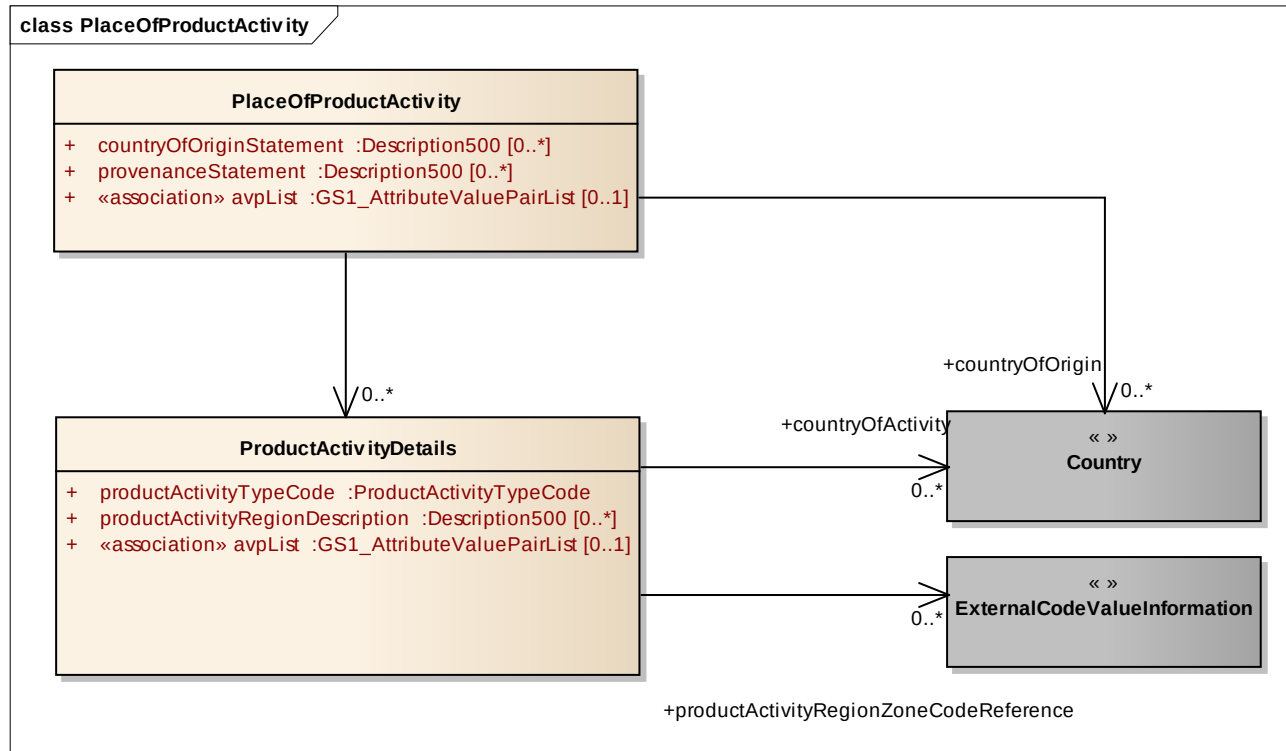
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	organicProductPlaceOfFarmingCode	OrganicProductPlaceOfFarmingCode	0..1	Indication of the place where the agricultural raw materials of which the product is composed have been farmed, acc. To Council Regulation (EC) No 834/2007. It applies only to the trade item, not ingredient by ingredient. Where the Community logo is used, an indication of the place where the agricultural raw materials of which the product is composed have been farmed, shall also appear in the same visual field as the logo and shall take one of the code list forms, as appropriate. For EU or NON-EU indication, small quantities by weight of ingredients may be disregarded provided, that the total quantity of the disregarded ingredients does not exceed 2 % of the total quantity by weight of raw materials of agricultural origin. This Regulation shall apply to the following products originating from agriculture, including aquaculture, where such products are placed on the market or are intended to be placed on the market: a) Live or unprocessed agricultural products; b) Processed agricultural products for use as food; c) Feed; d) Vegetative propagating material and seeds for cultivation. The products of hunting and fishing of wild animals shall not be considered as organic production. This Regulation shall also apply to yeasts used as food or feed.

3.15. Party In Role



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
PartyInRole				The identification of a party, by GLN, in a specific party role.
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identification of a party by use of a code other than the Global Location Number.
Attribute	gln	GLN	0..1	The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the primary party identifier. Each party identified in the trading relationship must have a primary party Identification.
Attribute	partyAddress	String	0..1	The address associated with the party. This could be the full company address.
Attribute	partyName	string	0..1	The name of the party expressed in text.
Attribute	partyRoleCode	PartyRoleCode	0..1	A code that identifies the role of a party in a business transaction.

3.16. Place Of Product Activity



content	attribute / role	datatype /secondary class	multiplicity	definition
PlaceOfProductActivity				Information on the activity (e.g. bottling) taken place for a trade item as well as the associated geographic area.
Attribute	countryOfOriginStatement	Description500	0..*	A description of the country the item may have originated from or has been processed for example "Made in Germany".

content	attribute / role	datatype /secondary class	multipl icity	definition
Attribute	provenanceState ment	Description500	0..*	The place a trade item originates from. Text that corresponds to the claim of provenance as formulated on the packaging of the trade item. Examples: Made in Thüringen Mountains, Made in Paris, From the Napa Valley.
Association	avpList	GS1_AttributeV aluePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association	countryOfOrigin	Country	0..*	A description of the country the item may have originated from or has been processed. Examples : Made in Germany.
Association		productActivityD etails	0..*	Details on the activity (e.g. bottling) taken place for a trade item as well as the associated geographic area.
ProductActivity Details				Details on the activity (e.g. bottling) taken place for a trade item as well as the associated geographic area.
Attribute	productActivityTyp eCode	ProductActivityT ypeCode	1..1	A code depicting the type of activity being performed on a trade item for example processing, bottling, manufacturing.
Attribute	productActivityRe gionDescription	Description500	0..*	The region in which a processing or other activity has been performed for example processing, bottling, manufacturing.
Association	countryOfActivity	Country	0..*	The geographic area where an activity has taken place.
Association	productActivityRe gionZoneCodeRef erence	ExternalCodeVa lueInformation	0..*	An external code value (code list managed outside of GS1) that depicts a specific zone or region for example an FAO Catch Zone. Use GS1 Code List CatchAreaCode when productActivityType equals CATCH_ZONE.
Association	avpList	GS1_AttributeV aluePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

3.17. Referenced File Information

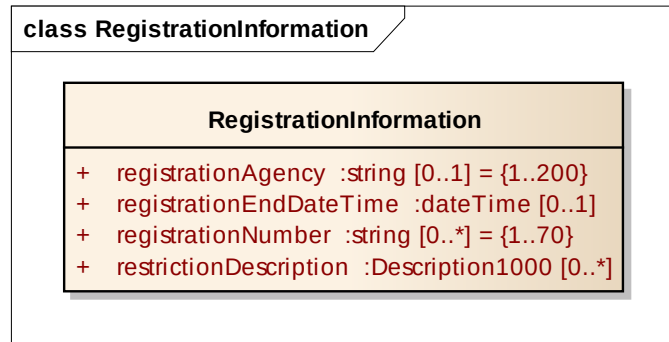
class ReferencedFileInformation

ReferencedFileInformation	
+	referencedFileTypeCode :ReferencedFileTypeCode
+	contentDescription :Description70 [0..1]
+	fileCreationProgram :string [0..*] = {1..70}
+	fileEffectiveEndDateTime :dateTime [0..1]
+	fileEffectiveStartDateTime :dateTime [0..1]
+	fileFormatDescription :Description70 [0..1]
+	fileFormatName :string [0..1] = {1..35}
+	fileLanguageCode :LanguageCode [0..*]
+	fileName :string [0..1] = {1..70}
+	fileOptimalViewerName :string [0..*] = {1..200}
+	fileOriginCountryCode :CountryCode [0..*]
+	fileVersion :string [0..1] = {1..70}
+	uniformResourceIdentifier :string [0..1] = {1..2500}
+	«association» avpList :GS1_AttributeValuePairList [0..1]

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
ReferencedFileInformation				Provides URL and other information on a referenced electronic file.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	referencedFileTypeCode	ReferencedFileTypeCode	1..1	The type of file that is being referenced for example Safety Data Sheet or Product Image.
Attribute	contentDescription	Description70	0..1	Free form description of the content of the file
Attribute	fileCreationProgram	string	0..*	The program used in the creation of the digital asset.
Attribute	fileEffectiveEndDateTime	dateTime	0..1	The date upon which the target of this external link ceases to be effective for use.
Attribute	fileEffectiveStartDateTime	dateTime	0..1	The date upon which the target of this external link begins to be effective for use.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	fileFormatDescription	Description70	0..1	Free form description of the format of the file.
Attribute	fileFormatName	string	0..1	The name of the file format. Examples: PDF; JPEG; BMP
Attribute	fileLanguageCode	LanguageCode	0..*	The specified language to which the digital asset is targeted.
Attribute	fileName	string	0..1	The name of the file that contains the external information.
Attribute	fileOptimalViewerName	string	0..*	The software to which this file was targeted.
Attribute	fileOriginCountryCode	CountryCode	0..*	The country where the digital asset originated.
Attribute	fileVersion	string	0..1	A description of the terms used by the manufacturer to denote the version of the digital asset.
Attribute	uniformResourceIdentifier	string	0..1	Simple text string that refers to a resource on the internet, URLs may refer to documents, resources, people, etc.

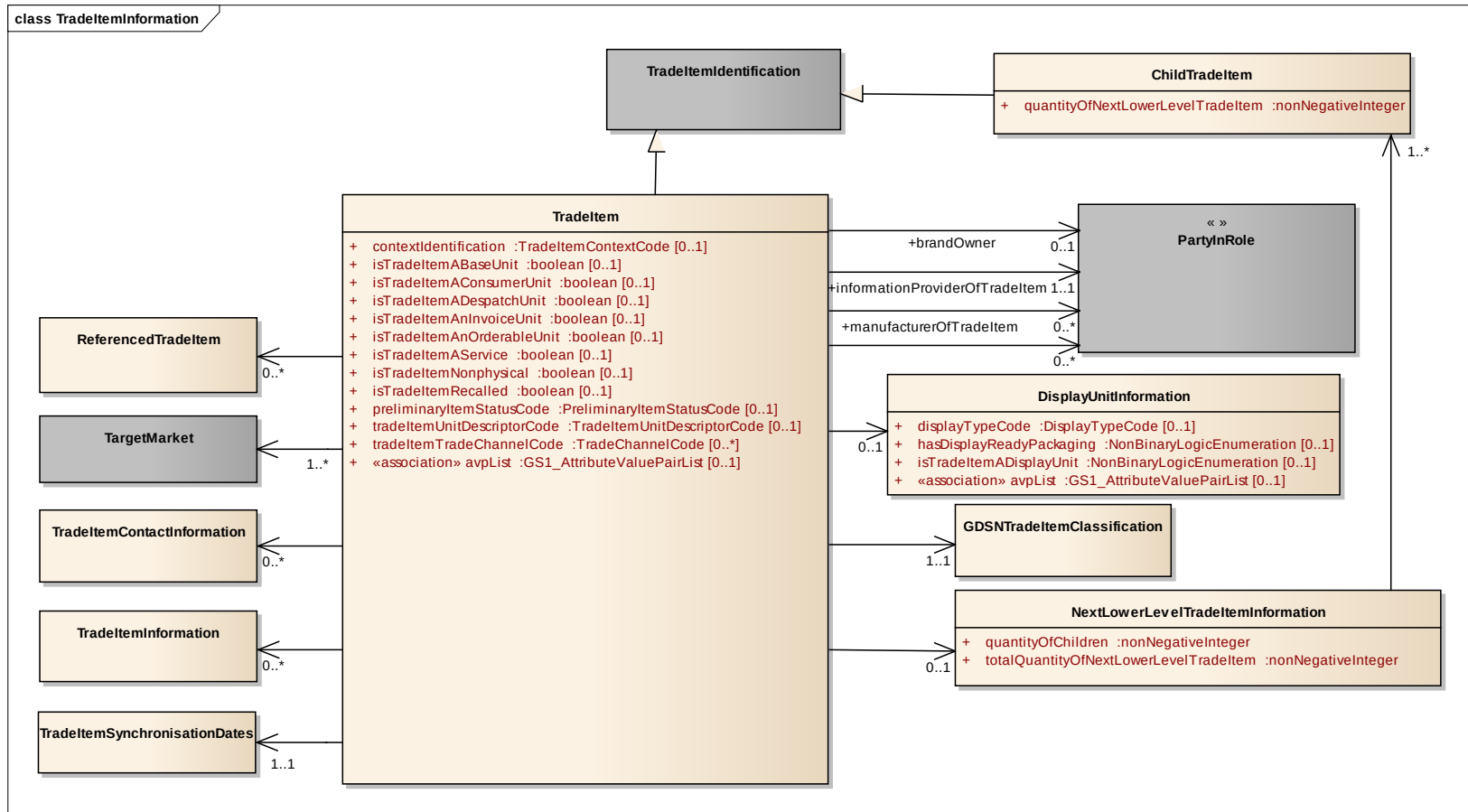
3.18. Registration Information



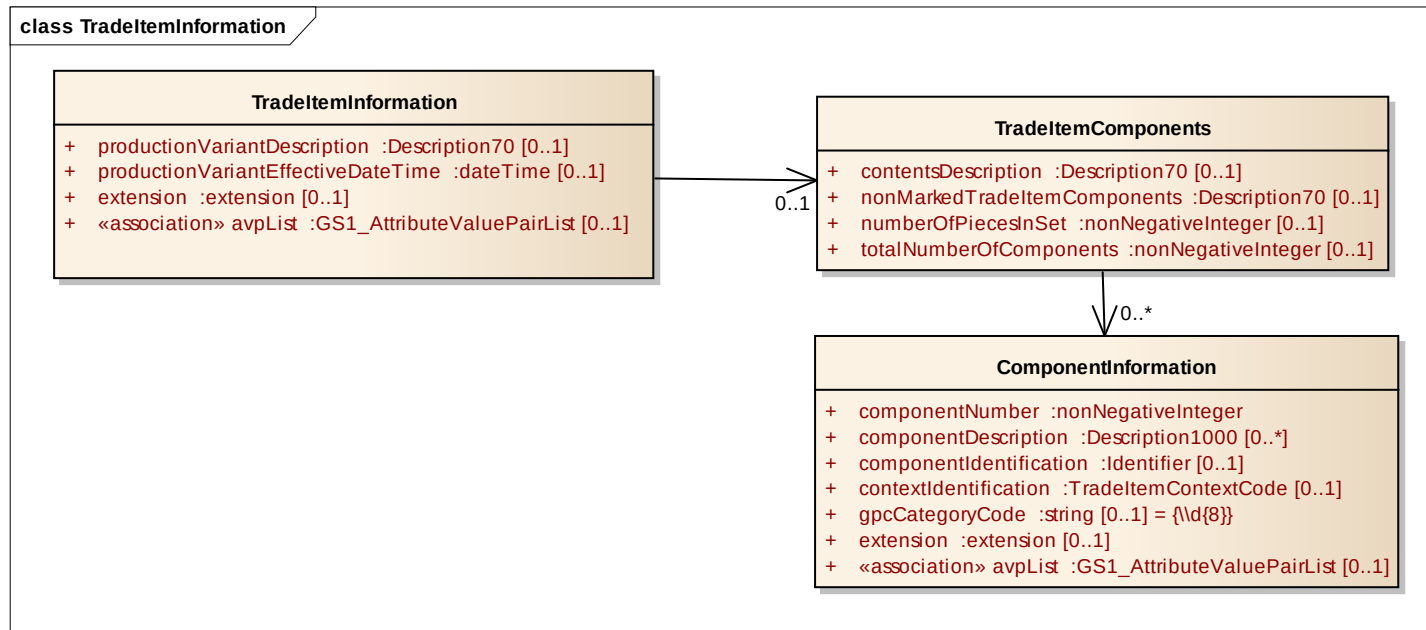
content	attribute / role	datatype /secondary class	multipl icity	definition
RegistrationInf ormation				Information on any registration numbers issued for the trade item.
Attribute	registrationAgenc y	string	0..1	An agency that issues registration numbers for any item or substance for example a chemical that is contained within the product.
Attribute	registrationEndDa teTime	dateTime	0..1	The last date that the registration number is valid.
Attribute	registrationNumb er	string	0..*	A registration number for any item or its constituents.
Attribute	restrictionDescript ion	Description100 0	0..*	A description on any restrictions on usage for example locations where a pesticide cannot be sold.

4. Core Item

4.1. Trade Item



Note: Trade Item is associated directly to the CIN.



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
ChildTradeItem				A trade item in the item hierarchy level immediately below the parent trade item.
Generalization		TradeItemIdentification		A trade item in the item hierarchy level immediately below the parent trade item. Note: The generalization from TradeItemIdentification brings into the ChildTradeItem class all of the attributes from TradeItemIdentification including GTIN.
Attribute	quantityOfNextLowerLevelTradeItem	nonNegativeInteger	1..1	The number of one child trade item (as identified by the association of ChildTradeItem class to TradeItemIdentification class) contained by the parent trade item. The child trade item must be in the hierarchy level immediately below the parent trade item.
DisplayUnitInformation				Information on whether the item is shipped in a display unit and the type of display unit it is.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	displayTypeCode	DisplayTypeCode	0..1	A code determining the type of display a trade item is, for example Shelf Display Ready Packaging.
Attribute	hasDisplayReadyPackaging	NonBinaryLogicEnumeration	0..1	Indicates that the Trade Item has display ready packaging (also referred to as Shelf Ready Packaging or Retail Ready Packaging). Display ready packaging can be exhibited on the floor, a shelf or other location. It may or may not require some modification e.g. to raise a flap. If modifications are necessary, the measurements would be advised for the trade item as prepared for display.
Attribute	isTradeItemADisplayUnit	NonBinaryLogicEnumeration	0..1	An indicator whether or not a trade item is or could be used as a display unit. A display unit is intended to be shipped to a store without being split at a distribution centre or similar party and is intended to be displayed in a retail store either on a shelf or on the shop floor.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
NextLowerLevelTradeItem				Information on the next lower level trade items in the trade item hierarchy.
Attribute	quantityOfChildren	nonNegativeInteger	1..1	Value indicates the number of unique next lower level trade items contained in a complex trade item. A complex trade item can contain at least 2 different GTINs.
Attribute	totalQuantityOfNextLowerLevelTradeItem	nonNegativeInteger	1..1	This represents the Total quantity of next lower level trade items that this trade item contains.
Association		ChildTradeItem	1..*	A trade item in the item hierarchy level immediately below the parent trade item.
TradeItemInformation				Detailed information on the trade item.
Association		TradeItemComponents	0..1	A constituent part of the trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	productionVariantDescription	Description70	0..1	Free text assigned by the manufacturer to describe the production variant. Examples are: package series X, package series Y.

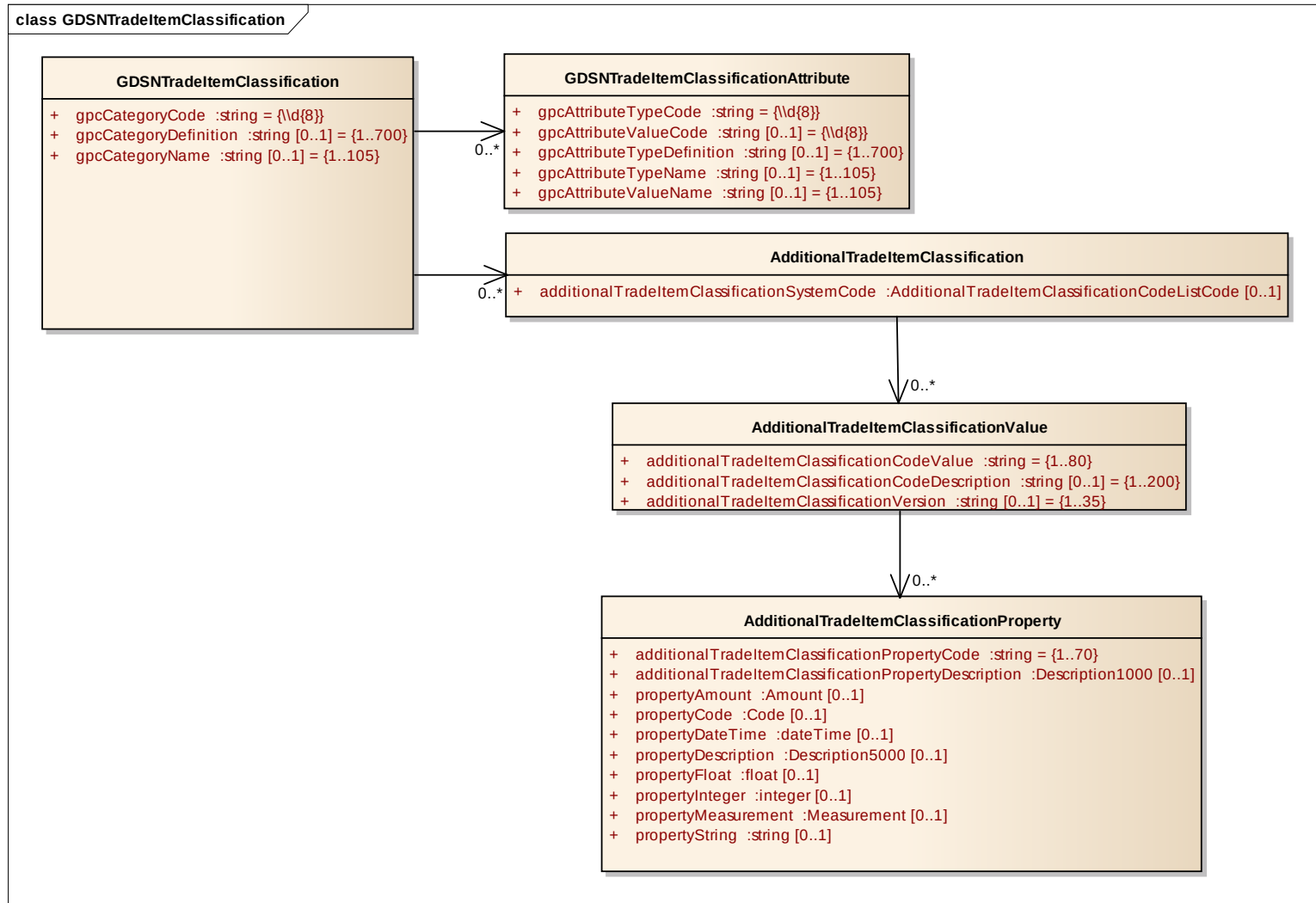
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	productionVariantEffectiveDateTime	dateTime	0..1	The start date of a production variant. The variant applies to products having a date mark (a best before date or expiration date) on the package that comes on or after the effective date.
Attribute	extension	extension	0..1	An extension point for the trade item.
TradeItem				A Trade Item is any product or service upon which there is a need to retrieve pre-defined information and that may be priced, ordered or invoiced at any point in any supply chain. The term "trade item" is not to be confused with the legacy term "traded item" (now referred to within the GS1 General Specifications as 'standard trade item group' which can mean a specific product containment level, which is also called case. "Trade item" can represent any level of product containment, and also can represent a service.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association	brandOwner	PartyInRole	0..1	Party name and identification information for the brand owner. May or may not be the same entity as the information provider, which actually enters and maintains data in data pools.
Association	informationProviderOfTradeItem	PartyInRole	1..1	The party providing the information about the trade item.
Association	manufacturerOfTradeItem	PartyInRole	0..*	Party name and identification information for the manufacturer of the trade item.
Association		PartyInRole	0..*	Party name and identification information for a party relevant to the trade item for example Information Provider.
Association		DisplayUnitInformation	0..1	Information on whether the item is shipped in a display unit and the type of display unit it is.
Association		NextLowerLevelTradeItemInformation	0..1	Information on the next lower level trade items in the trade item hierarchy.
Association		TargetMarket	1..*	Target Market associated with a Trade Item.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Association		GDSNTradeItemClassification	1..1	Identifies a category in the GPC and other product classifications.
Association		ReferencedTradeItem	0..*	A trade item referenced by this trade item for example replaced or replaced by.
Association		TradeItemInformation	0..*	Information on the trade item that can vary by context.
Association		TradeItemSynchronisationDates	1..1	Dates relevant to the process of trade item synchronisation for example publication date.
Association		TradeItemContactInformation	0..*	Contact details for a Trade Item.
Generalization		TradeItemIdentification		Trade Item Identification for a TradeItem.
Attribute	contextIdentification	TradeItemContextCode	0..1	The unique identifier established for the context managed by GS1.
Attribute	isTradeItemABaseUnit	boolean	0..1	An indicator identifying the trade item as the base unit level of the trade item hierarchy.
Attribute	isTradeItemAConsumerUnit	boolean	0..1	Identifies whether the trade item to be taken possession of ,or to be consumed or used by an end user or both, as determined by the manufacturer. The end user could be, but is not limited to, a consumer as in items sold at retail, or a patient/clinician/technician in a healthcare setting, or an operator for foodservice such as restaurants, airlines, cafeterias, etc.
Attribute	isTradeItemADespatchUnit	boolean	0..1	An indicator identifying that the information provider considers the trade item as a despatch (shipping) unit. This may be relationship dependent based on channel of trade or other point to point agreement.
Attribute	isTradeItemAnInvoiceUnit	boolean	0..1	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be relationship dependent based on channel of trade or other point to point agreement.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	isTradeItemAnOrderableUnit	boolean	0..1	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be a relationship dependent based on channel of trade or other point to point agreement
Attribute	isTradeItemAService	boolean	0..1	An indicator that the trade item is a service for example a receipt that can be used for upgrading a pre-paid phone balance, an entrance ticket to an amusement park, sporting event, theatre, service maintenance, installation service, repairs.
Attribute	isTradeItemNonphysical	boolean	0..1	An indicator that the trade item is not a physical item and as such has no dimensional manifestation. For example a computer download of software, movies or music, a service agreement, or prepaid cellular time.
Attribute	isTradeItemRecalled	boolean	0..1	An indicator for the Trade Item to determine if the Manufacturer or Supplier has recalled the product.
Attribute	preliminaryItemStatusCode	PreliminaryItemStatusCode	0..1	A code designating whether the trade item has data that the information provider intends to correct or add values to due to pre-production unknowns (PRELIMINARY) or whether the item has attribute values that reflect go to market state (FINAL).
Attribute	tradeItemUnitDescriptorCode	TradeItemUnitDescriptorCode	0..1	Describes the hierarchical level of the trade item. The attribute tradeItemUnitDescriptorCode is mandatory. Examples: "CASE" , "PALLET".
Attribute	tradeItemTradeChannelCode	TradeChannelCode	0..*	A grouping of entities by common business model concentration used to define the distribution or marketing segmentation of products, customers and geographic areas into common groups that are supplied, serviced and measured in similar ways.
ComponentInformation				A constituent part of a trade item that is packaged separately.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	componentNumber	nonNegativeInteger	1..1	Indicate a sequence number of a component of a trade item.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	componentDescription	Description1000	0..*	A description of the component.
Attribute	componentIdentification	Identifier	0..1	An identifier for a component.
Attribute	contextIdentification	TradeItemContextCode	0..1	The unique identifier established for the context managed by GS1.
Attribute	gpcCategoryCode	String	0..1	Code specifying a product category according to the GS1 Global Product Classification (GPC) standard.
Attribute	extension	Extension	0..1	An extension point for a component.
TradeItemComponents				A constituent part of a trade item that is packaged separately.
Association		ComponentInformation	0..*	Component information for a trade item.
Attribute	contentsDescription	Description70	0..1	Describes the contents of the the components of the trade item when an item is shipped in multiple containers.
Attribute	nonMarkedTradeItemComponents	Description70	0..1	This attribute indicates a non-saleable part of the trade item. It is used to specify components of a trade item that cannot be sold separately.
Attribute	numberOfPiecesInSet	nonNegativeInteger	0..1	The total quantity of components included in this trade item: E.g: for a 12 pack of yogurt (Vanilla, Chocolate and Strawberry), this would be 12.
Attribute	totalNumberOfComponents	nonNegativeInteger	0..1	The number of different types of components included in this trade item. Eg. for a 12 pack of yogurt (Vanilla, Chocolate and Strawberry) this would be 3.

4.2. GDSN Trade Item Classification

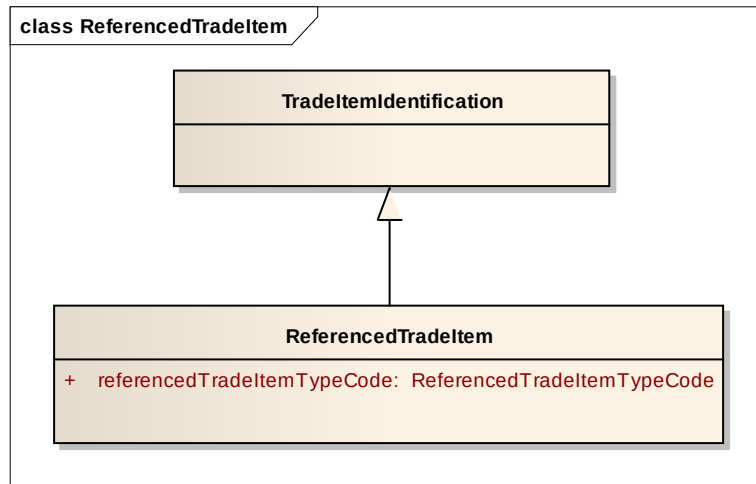


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
GDSNTradeItemClassification				Information specifying the product class to which a trade item belongs and the classification system being applied.
Association		AdditionalTradeItemClassification	0..*	Information on category code based on an alternate classification schema chosen in addition to the Global Product Classification (GPC).
Association		GDSNTradeItemClassificationAttribute	0..*	Contains information which identifies the GPC classification attribute for a trade item.
Attribute	gpcCategoryCode	string	1..1	Code specifying a product category according to the GS1 Global Product Classification (GPC) standard.
Attribute	gpcCategoryDefinition	string	0..1	A GS1 supplied definition associated with the specified Global Product Classification (GPC) category code.
Attribute	gpcCategoryName	string	0..1	Name associated with the specified Global Product Classification (GPC) category code.
GDSNTradeItemClassificationAttribute				Information on the type and value of a Global Product Classification (GPC) attribute.
Attribute	gpcAttributeTypeCode	string	1..1	Code specifying the type of the Global Product Classification (GPC) attribute, for example 20000081 - Grape Variety.
Attribute	gpcAttributeValueCode	string	0..1	The GS1 provided code which identifies the Global Product Classification Attribute Value.
Attribute	gpcAttributeTypeDefinition	string	0..1	The GS1 provided definition of the Global Product Classification Attribute Code.
Attribute	gpcAttributeTypeName	string	0..1	The GS1 provided text equivalent of the Global Product Classification Attribute Code.
Attribute	gpcAttributeValueName	string	0..1	The GS1 provided text equivalent of the Global Product Classification Attribute Value Code.
AdditionalTradeItemClassification				Category code based on alternate classification schema chosen in addition to the Global Product Classification (GPC).

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Association		AdditionalTradeItemClassificationValue	0..*	Code list values for an Additional Trade Item Classification Type.
Attribute	additionalTradeItemClassificationSystemCode	AdditionalTradeItemClassificationCodeListCode	0..1	The Classification System for the Additional Trade Item Classification.
AdditionalTradeItemClassificationValue				A code list value for an Additional Trade Item Classification Type.
Association		AdditionalTradeItemClassificationProperty	0..*	Characteristics that are associated with a class of trade items according to a taxonomy.
Attribute	additionalTradeItemClassificationCodeValue	string	1..1	Category code based on alternate classification schema chosen in addition to GS1 classification schema.
Attribute	additionalTradeItemClassificationCodeDescription	string	0..1	Description of the additional classification bundle (code/agency + description).
Attribute	additionalTradeItemClassificationVersion	string	0..1	The identification of a release of a particular product classification.
AdditionalTradeItemClassificationProperty				Characteristics that are associated with a class of trade items according to a taxonomy.
Attribute	additionalTradeItemClassificationPropertyCode	string	1..1	Code assigned to a property of product for a classification.
Attribute	additionalTradeItemClassificationPropertyDescription	Description1000	0..1	A description of a property of product for a specific classification. for example Waterproof.
Attribute	propertyAmount	Amount	0..1	A property of a classification of an item expressed as an amount (value and currency).
Attribute	propertyCode	Code	0..1	A property of a classification of an item expressed as a code.
Attribute	propertyDateTime	dateTime	0..1	A property of a classification of an item expressed as a date and time.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	propertyDescription	Description5000	0..1	A property of a classification of an item expressed as a description.
Attribute	propertyFloat	float	0..1	A property of a classification of an item expressed as a float for example 0.00.
Attribute	propertyInteger	integer	0..1	A property of a classification of an item expressed as an integer.
Attribute	propertyMeasurement	Measurement	0..1	A property of a classification of an item expressed as a measurement.
Attribute	propertyString	string	0..1	A property of a classification of an item expressed as text.

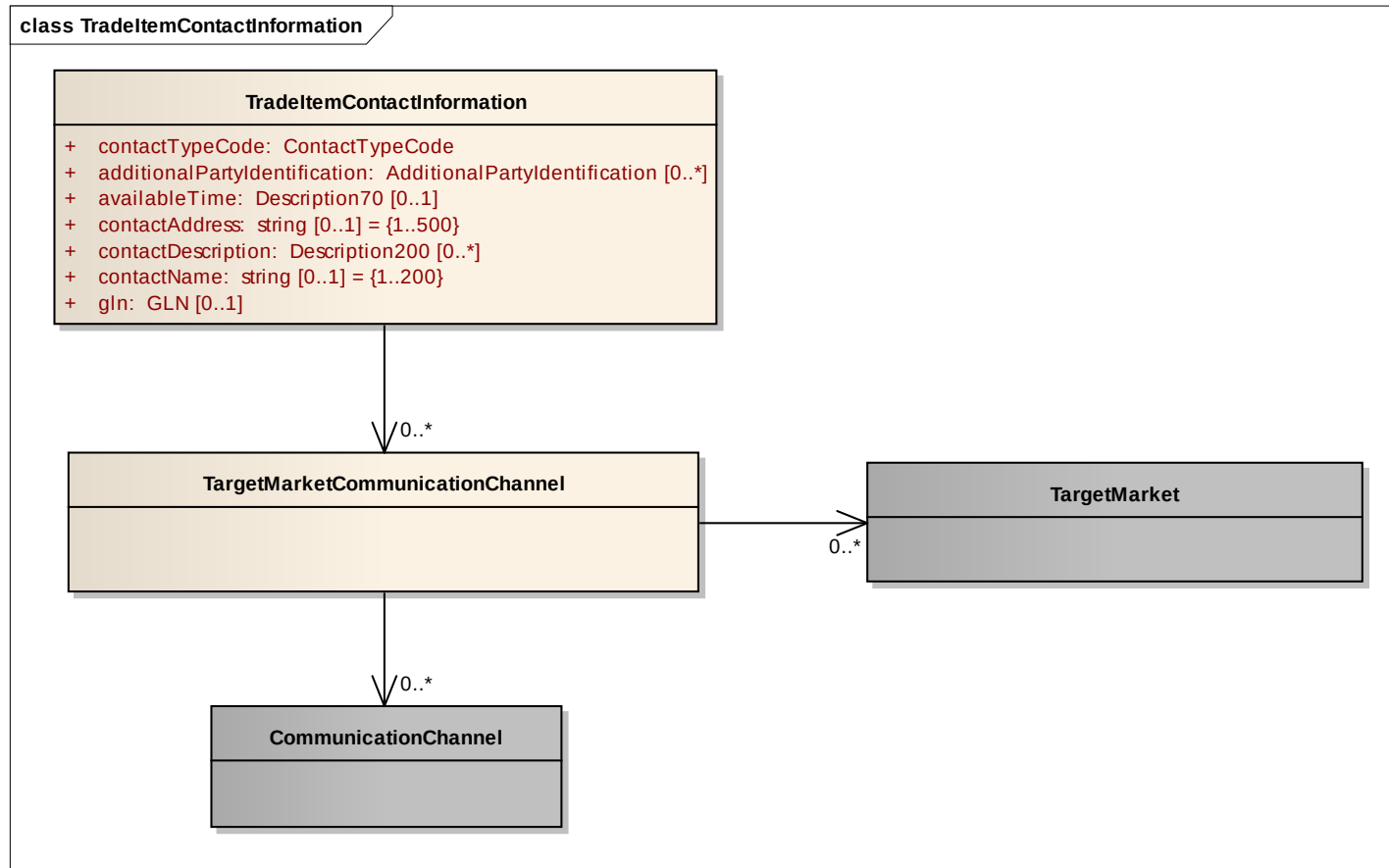
4.3. Referenced Trade Item



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
ReferencedTradeItem				A trade item not in the trade item hierarchy that is referenced for a specific purpose for example substitute, replaced by, equivalent trade items.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Generalization		TradeItemIdentification		The identification of the referenced trade item.
Attribute	referencedTradeItemTypeCode	ReferencedTradeItemTypeCode	1..1	A code depicting the type of trade item that is referenced for a specific purpose for example substitute, replaced by, equivalent trade items.

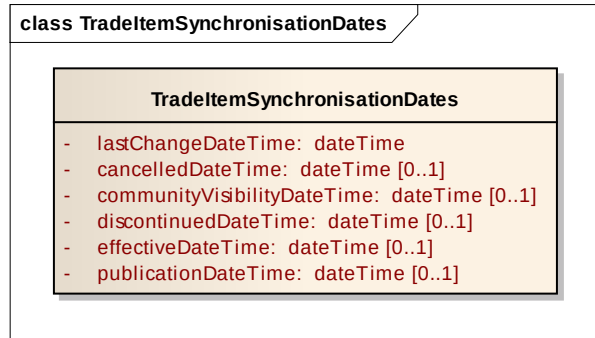
4.4. Trade Item Contact Information



content	attribute / role	datatype /secondary class	multipl icity	definition
TradeItemCont actInformation				Contact details for a Trade Item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association		TargetMarketCommunicationchannel	0..*	The communication channel for example phone number for a target market for a Trade Item.
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identification of a party by use of a code other than the Global Location Number
Attribute	availableTime	Description70	0..1	The time that a specific contact for a Trade Item is available for contact.
Attribute	contactAddress	string	0..1	The address associated with the contact type. For example, in case of a contact type of consumer support, this could be the full company address as expressed on the trade item packaging or label.
Attribute	contactDescription	Description200	0..*	A description of the contact for the trade item.
Attribute	contactName	string	0..1	The name of the company or person associated with the contact type. For example, in case of a contact type of consumer support, this could be the company name as expressed on the trade item packaging or label.
Attribute	contactTypeCode	ContactTypeCode	1..1	The general category of the contact party for a trade item for example Purchasing.
Attribute	gln	GLN	0..1	The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the primary party identifier. Each party identified in the trading relationship must have a primary party Identification.
TargetMarketCommunicationchannel				The communication channel for example phone number for a target market for a Trade Item.
Association		TargetMarket	0..*	A target market associated with a communication channel for example Canada.
Association		CommunicationChannel	0..*	A communication channel for a target market for example telephone.

4.5. Trade Item Synchronisation Dates

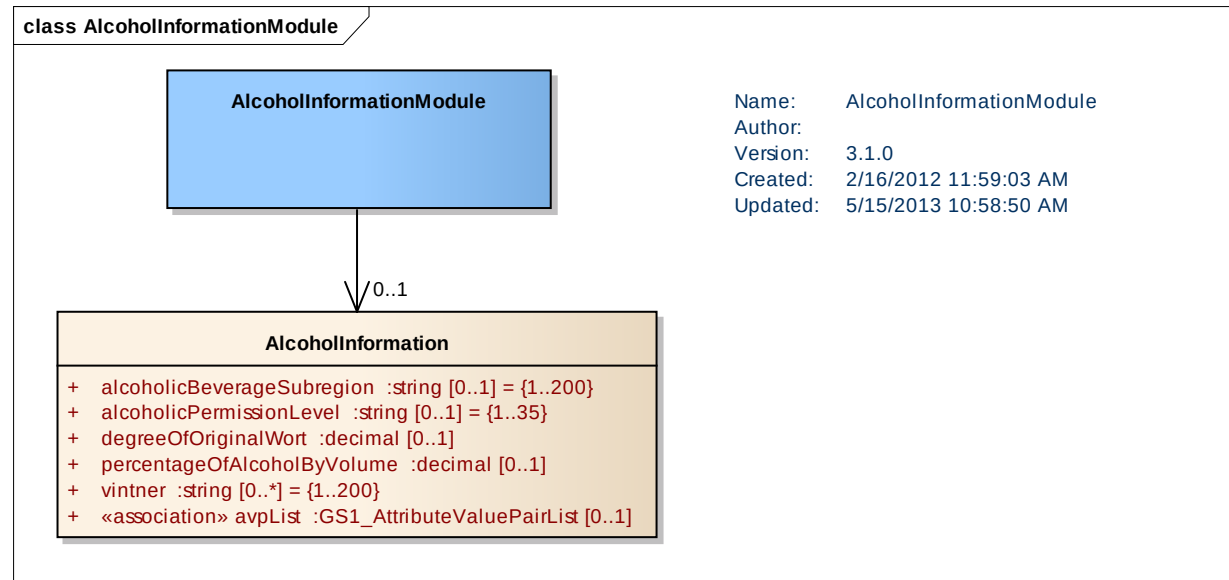


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
TradeItemSynchronisationDates				Dates related to the synchronisation of a trade item within the GDS Network.
Attribute	lastChangeDateTime	dateTime	1..1	Indicates the point in time where the last modification on a Trade Item was made.
Attribute	cancelledDateTime	dateTime	0..1	Date on which the cancellation of the launch of a trade item what was never and will never be manufactured is made.
Attribute	communityVisibilityDateTime	dateTime	0..1	The date from which the neutral trade item information (i.e. not the private information, not relationship-dependent data and not price data) is available to all members of the target data pool, without restriction. Until this date only the data recipients to whom the data source has explicitly published the data can have access to the data. By setting this date a data source gives permission for wider publication of the generic item data.
Attribute	discontinuedDateTime	dateTime	0..1	Communicates the date on which the trade item is no longer to be manufactured.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	effectiveDateTime	dateTime	0..1	The date on which the information contents of the master data version are valid. Valid = correct or true. This effective date can be used for initial trade item offering, or to mark a change in the information related to an existing trade item. This date would mark when these changes take effect.
Attribute	publicationDateTime	dateTime	0..1	A date on which all static data associated with the trade item becomes available for viewing and synchronisation.

5. Trade Item Modules

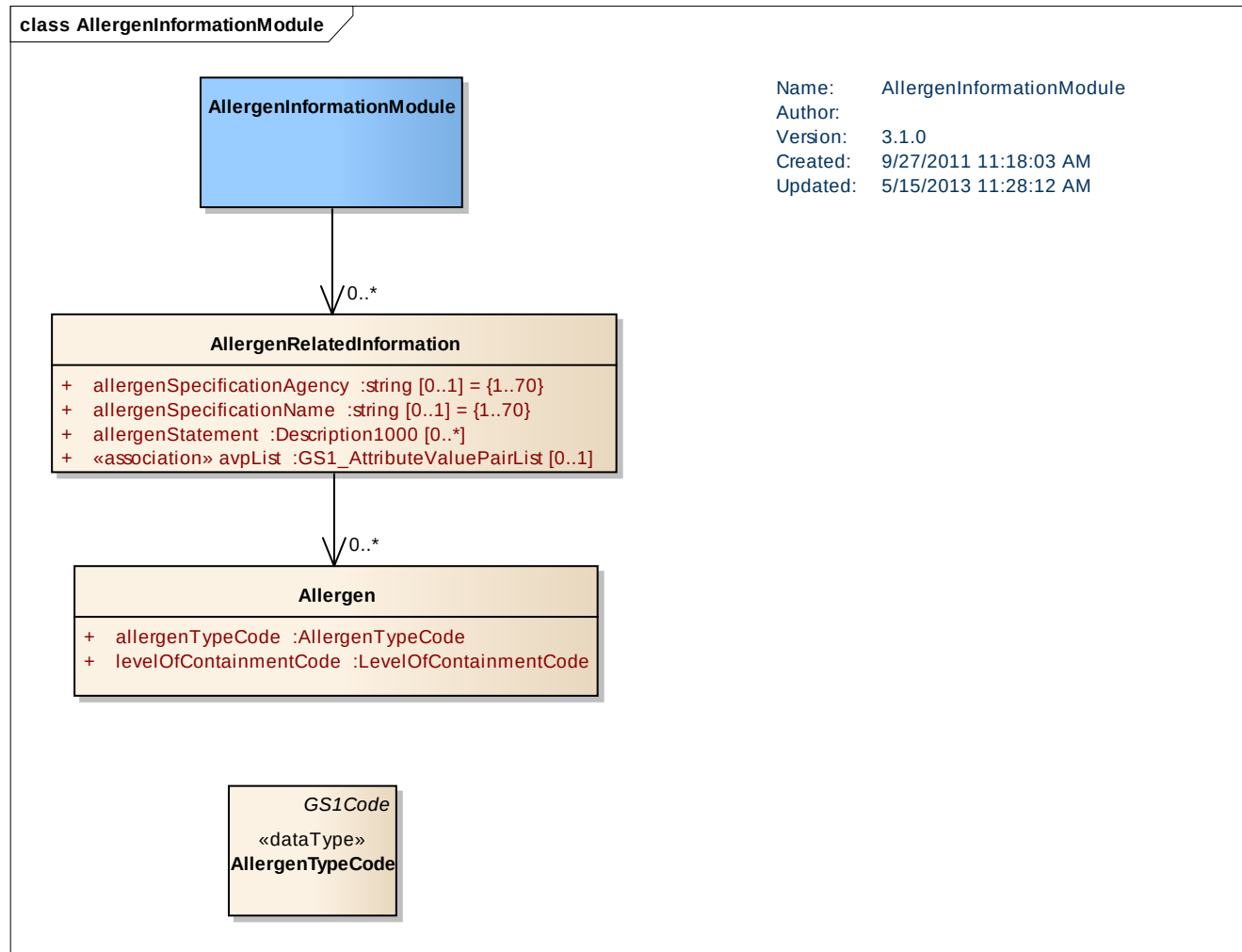
5.1. Alcohol Information Module



content	attribute / role	datatype /secondary class	multipl city	definition
AlcoholInformationM odule				A module containing details on products traditionally containing alcohol.
Association		AlcoholInformation	0..1	Details on products traditionally containing alcohol.
AlcoholInformation				Details on products traditionally containing alcohol.
Association	avpList	GS1_AttributeValueP airList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	alcoholicBeverageSubre gion	string	0..1	A legally defined geographical region where the grapes for a wine were grown also known as an appellation.
Attribute	alcoholicPermissionLev el	string	0..1	Indication of a permission level for alcoholic products dependent on the product classification. The permission level codes should reflect those of the target market.
Attribute	degreeOfOriginalWort	decimal	0..1	Specification of the degrees of original wort.

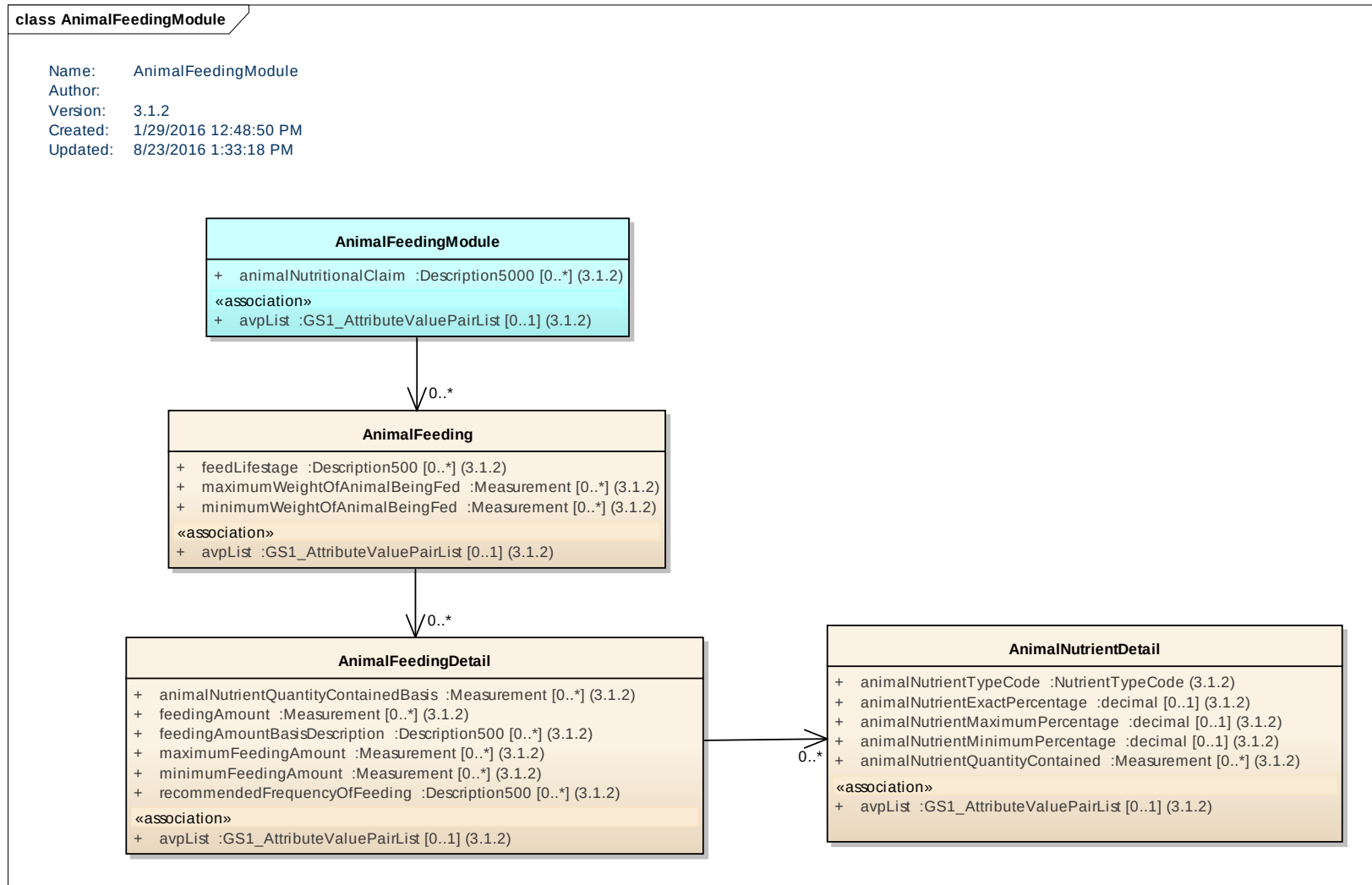
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	percentageOfAlcoholBy Volume	decimal	0..1	Percentage of alcohol contained in the base unit trade item.
Attribute	vintner	string	0..*	The person hired by a winery or wine company who is responsible for many of the processes in the preparation, taste and quality of the wine produced. The science of wine making is referred to as oenology. The vintner is the oenologist.

5.2. Allergen Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
Allergen				Description of the presence or absence of allergens as governed by local rules and regulations, specified per allergen.
Attribute	allergenTypeCode	AllergenTypeCode	1..1	Code indicating the type of allergen.
Attribute	levelOfContainmentCode	LevelOfContainmentCode	1..1	Code indicating the level of presence of the allergen.
AllergenInformationModule				A module containing information on allergens for a trade item.
Association		AllergenRelatedInformation	0..*	Details of allergens for a trade item.
AllergenRelatedInformation				Information on substances that might cause allergic reactions and substances subject to intolerance when consumed. The allergy information refers to specified regulations that apply to the target market to which the item information is published.
Association		Allergen	0..*	Details of the allergen and the associated containment.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	allergenSpecificationAgency	string	0..1	Agency that controls the allergen definition.
Attribute	allergenSpecificationName	string	0..1	Free text field containing the name and version of the regulation or standard that contains the definition of the allergen.
Attribute	allergenStatement	Description1000	0..*	Textual description of the presence or absence of allergens as governed by local rules and regulations, specified as one string.

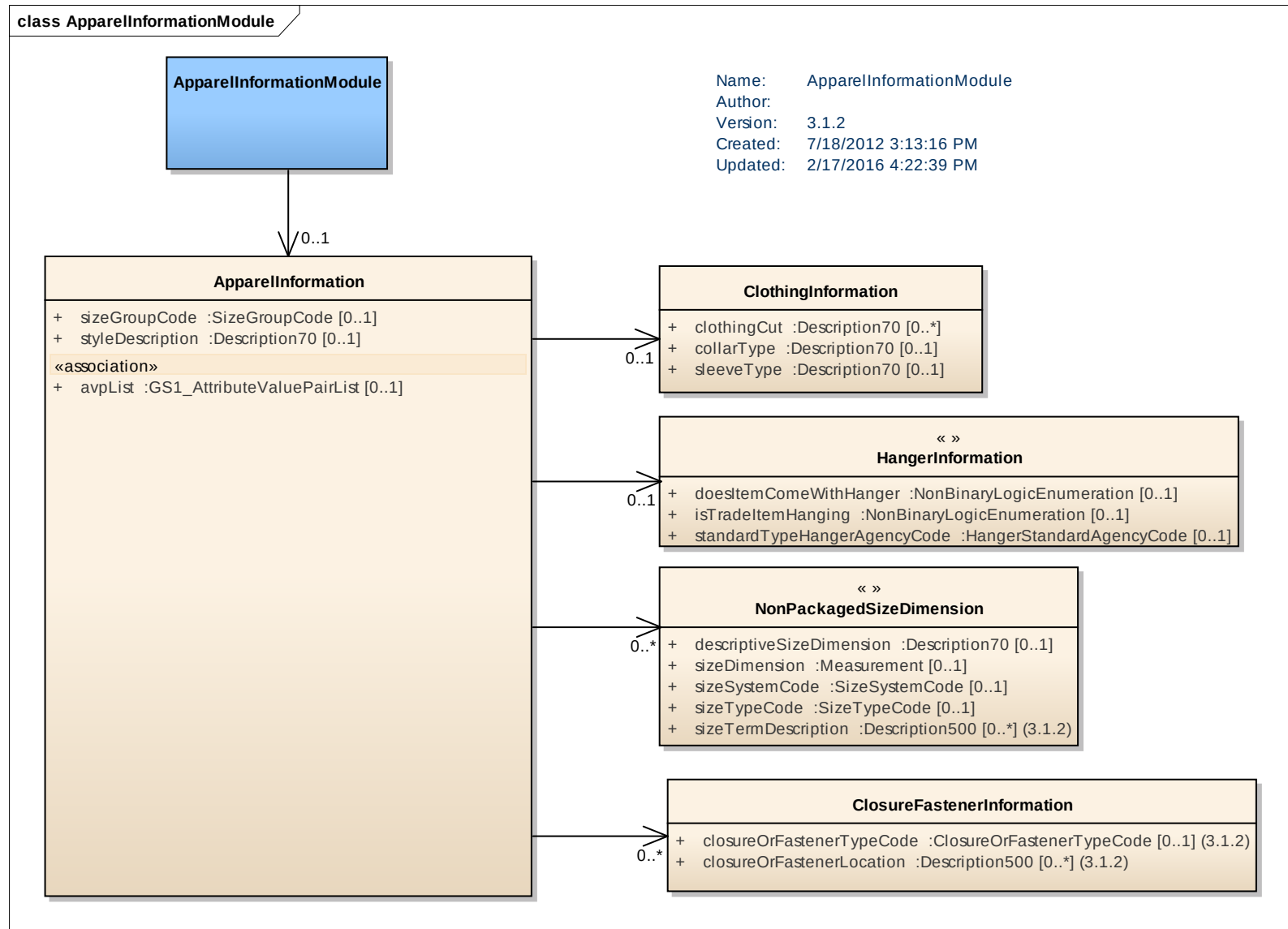
5.3. Animal Feeding Module

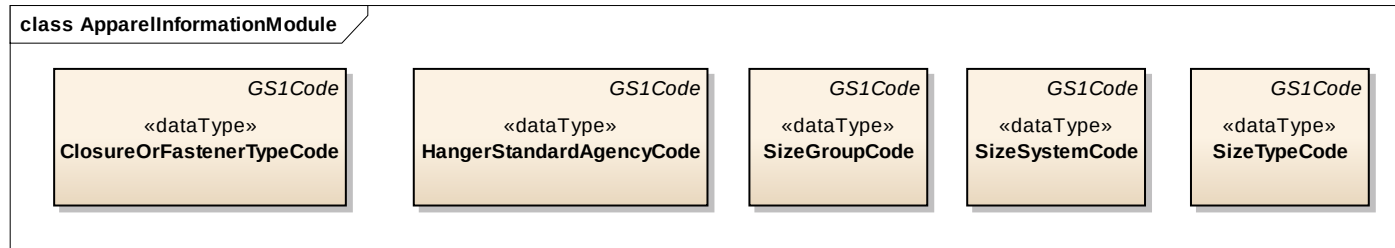


content	attribute / role	datatype /secondary class	multipl icity	definition
AnimalFeeding				Feeding directions for the trade item as it relates to different lifestages of the animal to be fed.
attribute	feedLifestage	Description500	0..*	Identifies the life-stage of the animal for which a trade item has been designed for example Adult.
attribute	maximumWeigh tOfAnimalBeing Fed	Measurement	0..*	The highest weight (in a weight range) of the animal to be fed by the trade item. This value qualifies the quantity of feed for the feed life-stage.
attribute	minimumWeight OfAnimalBeingF ed	Measurement	0..*	The lowest weight (in a weight range) of the animal to be fed by the trade item. This value qualifies the quantity of feed for the feed lifestage.
Association		AnimalFeeding Detail	0..*	Detail on animal feeding for a trade item.
attribute	avpList	GS1_AttributeV aluePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
AnimalFeeding Detail				Detail directions for feeding amount of the trade item as it relates to different life stages of the animal to be fed.
attribute	animalNutrientQ uantityContaine dBasis	Measurement	0..*	The basis amount that the animal nutrient quantity contained is measured against for example, 12 Kilograms in the case of 3 grams per 12 kilogram.
attribute	feedingAmount	Measurement	0..*	The amount of feed which is specified for the feed life-stage and qualified by the weight of animal being fed.
attribute	feedingAmount BasisDescriptio n	Description500	0..*	The basis code to qualify the feeding amounts being specified. For example, per day.
attribute	maximumFeedi ngAmount	Measurement	0..*	The maximum amount of feed which is specified for the feed life-stage and qualified by the weight of animal being fed.
attribute	minimumFeedin gAmount	Measurement	0..*	The minimum amount of feed which is specified for the feed life-stage and qualified by the weight of animal being fed.
attribute	recommendedF requencyOfFee ding	Description500	0..*	How frequently it is recommended to feed an animal the quantity of feed within a time period for the specified feed life-stage. Examples: 2 feedings per day, maximum 2 chew sticks and/or 2 portions per day.
association		AnimalNutrient Detail	0..*	Nutrient information for animal feed products.
association	avpList	GS1_AttributeV aluePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
AnimalFeeding Module				A module detailing instructions on feeding animals in relation to different stages of their life.
attribute	animalNutritiona lClaim	Description500 0	0..*	Free text field for any additional nutritional claims in relations to animal feed.
association		AnimalFeeding	0..*	Animal feeding directions for an animal.
AnimalNutrientD etail				Nutrient information for animal feed products.

content	attribute / role	datatype /secondary class	multipl icity	definition
attribute	animalNutrientExactPercentage	decimal	0..1	The guaranteed percentage of the specified nutrient contained in the trade item.
attribute	animalNutrientMaximumPercentage	decimal	0..1	Maximum guaranteed percentage of the specified nutrient contained in the trade item.
attribute	animalNutrientMinimumPercentage	decimal	0..1	Minimum guaranteed percentage of the specified nutrient contained in the trade item.
attribute	animalNutrientQuantityContained	Measurement	0..*	Measurement value indicating the amount of the nutrient contained in the animal food or nutrition product. It is expressed relative to the animal nutrient quantity contained basis measurement. For example, 3 grams in the case of 3 grams per 12 kilogram. Allows for the representation of the same value in different units of measure but not multiple values.
attribute	animalNutrientTypeCode	NutrientTypeCode	1..1	A code identifying nutrients contained in the animal food or nutrition product.
association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

5.4. Apparel Information Module

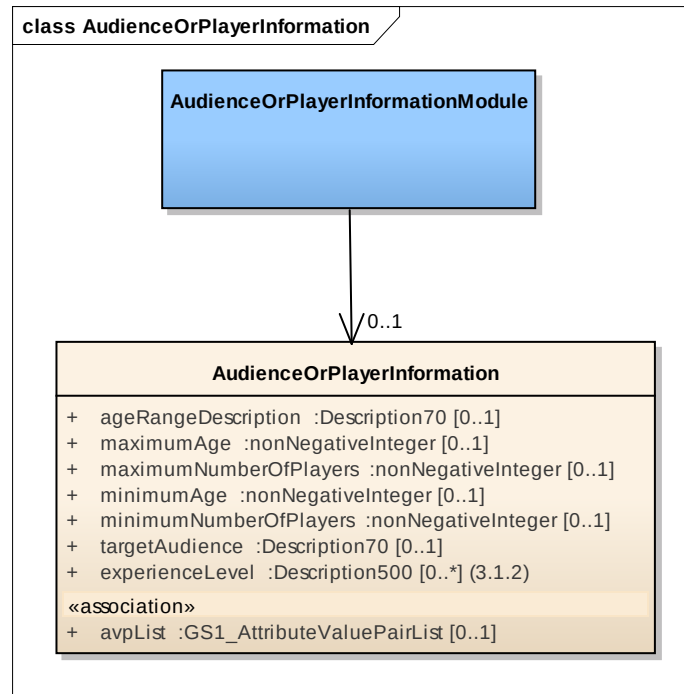




content	attribute / role	datatype /secondary class	multipli city	definition
ApparelInformation				Details specific to apparel trade items.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		ClothingInformation	0..1	Information related to clothing.
Association		HangerInformation	0..1	Information on hangers for the apparel item.
Association		NonPackagedSizeDimension	0..*	Size information related to apparel trade items.
Association		ClosureFastenerInformation	0..*	Details on the closure or fastener in or on the trade item.
Attribute	sizeGroupCode	SizeGroupCode	0..1	A description of the variable size that is necessary to uniquely specify the size of the item in conjunction with the non-packaged size dimension.
Attribute	styleDescription	Description70	0..1	A description of the style of GTINs that share many of the similar characteristics and are recognizable types of products by the consumer.
ApparelInformationModule				A module containing details specific to apparel trade items.
Association		ApparelInformation	0..1	Details specific to apparel trade items.
ClosureFastenerInformation				Details on the closure or fastener in or on the trade item.
attribute	closureOrFastenerTypeCode	ClosureOfFastenerTypeCode	0..1	A code to identify the type(s) of closure or fastener in or on the trade item. For example: zipper, hook and loop, button, etc..
attribute	closureOrFastenerLocation	Description500	0..*	The location on the trade item of the zipper, snap, button, etc..
ClothingInformation				Information related to clothing.
Attribute	clothingCut	Description70	0..*	Supplemental information to indicate the clothing cut or silhouette make of the garment. For example: silhouette details for a pair of jeans such as boot cut, or loose fit, "Comfort Fit".
Attribute	collarType	Description70	0..1	A free text description that identifies the type of collar on the garment.
Attribute	sleeveType	Description70	0..1	A free text description of the garment sleeve type.

content	attribute / role	datatype /secondary class	multipli city	definition
HangerInformation				Contains information regarding any hanger included with product.
Attribute	doesItemComeWith Hanger	boolean	0..1	A boolean value that indicates whether or not the trade item comes with a hanger.
Attribute	isTradeItemHangin g	NonBinaryLogicEn umeration	0..1	An indicator whether or not the trade Item is shipped hanging, as opposed to being shipped with a hanger but not actually hanging.
Attribute	standardTypeHang erAgencyCode	HangerStandardAg encyCode	0..1	A code that identifies the agency that specifies industry standards for hangers.
NonPackagedSizeD imension				Size information related to apparel trade items.
Attribute	descriptiveSizeDim ension	Description70	0..1	The textual representation of the size dimension specified by the size type.
Attribute	sizeDimension	Measurement	0..1	The numerical size measurement of the size dimension specified by the size type.
Attribute	sizeSystemCode	SizeSystemCode	0..1	The system that is used to define the size. It is used in conjunction with size group to completely define the size dimension.
Attribute	sizeTermDescriptio n	Description500	0..*	The textual size specified by the size type expressed as a free-form text field for example 10 Medium or for diamonds a clarity of G-H.
Attribute	sizeTypeCode	SizeTypeCode	0..1	The type of size dimension being specified by the size measurement.

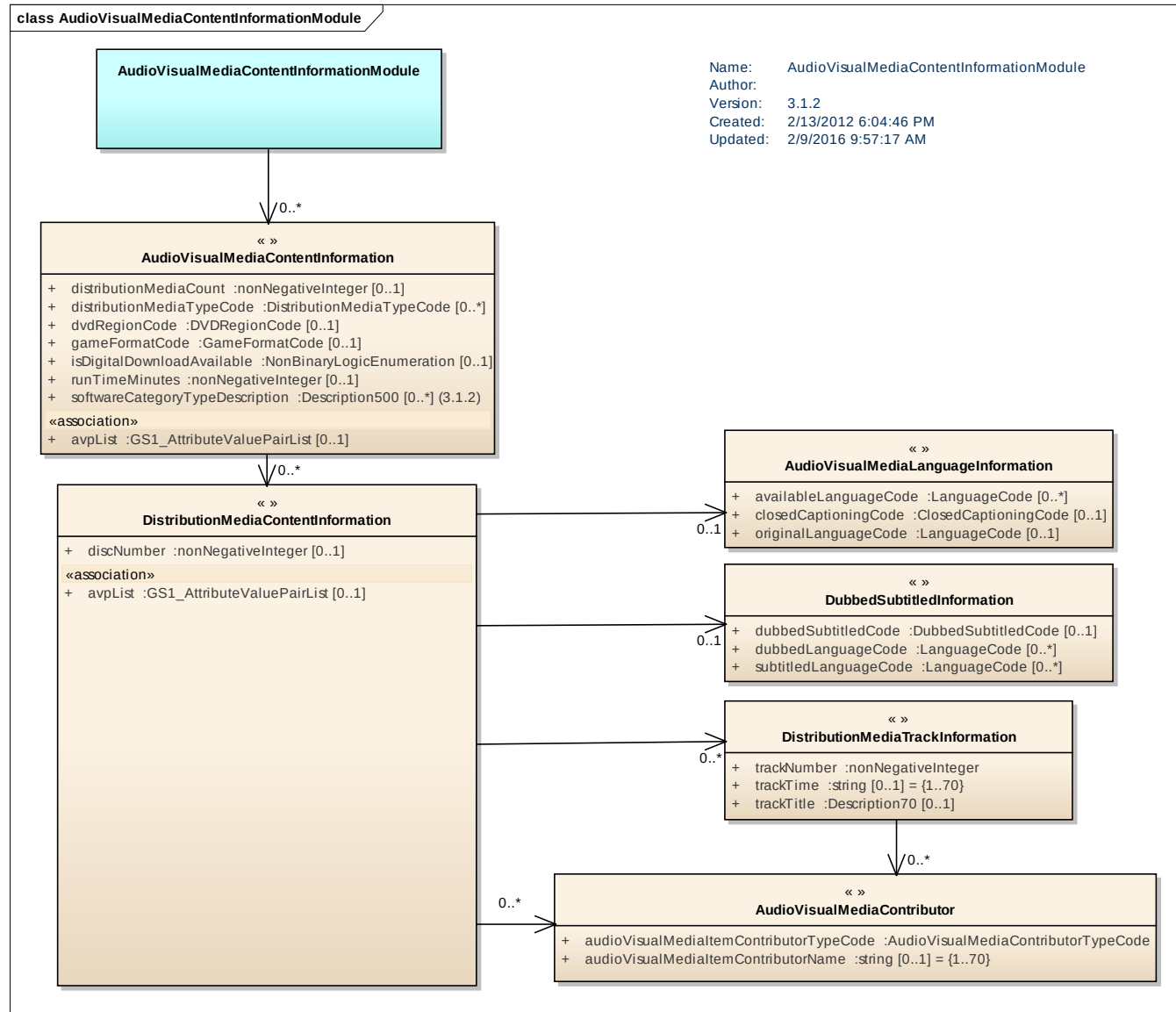
5.5. Audience Or Player Information Module

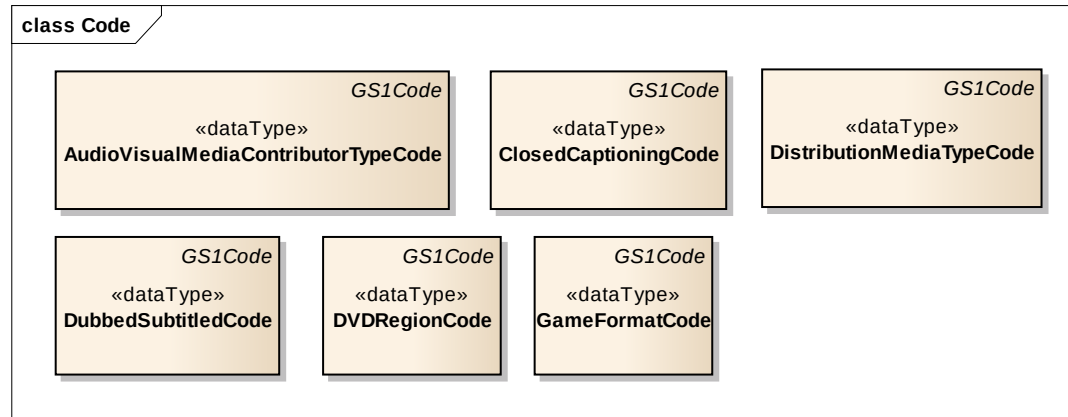


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
AudienceOrPlayerInformationModule				Logical grouping of information regarding audience or player information.
Association		AudienceOrPlayerInformation	0..1	Logical grouping of information regarding audience or player information.
AudienceOrPlayerInformation				Logical grouping of information regarding audience or player information.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	ageRangeDescription	Description70	0..1	Description of the recommended age range of participating players.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	experienceLevel	Description500	0..*	The level of experience or expertise required to use the equipment or device for example: Beginner, Intermediate, Advanced.
Attribute	maximumAge	nonNegativeInteger	0..1	Recommended oldest age for a game or publication.
Attribute	maximumNumberOfPlayers	nonNegativeInteger	0..1	Maximum number of players that can participate in the game.
Attribute	minimumAge	nonNegativeInteger	0..1	Recommended youngest age for a the game or publication.
Attribute	minimumNumberOfPlayers	nonNegativeInteger	0..1	Minimum number of players that can participate in the game.
Attribute	targetAudience	Description70	0..1	A description of the recommended audience of the music publication.

5.6. Audio Visual Media Content Information Module



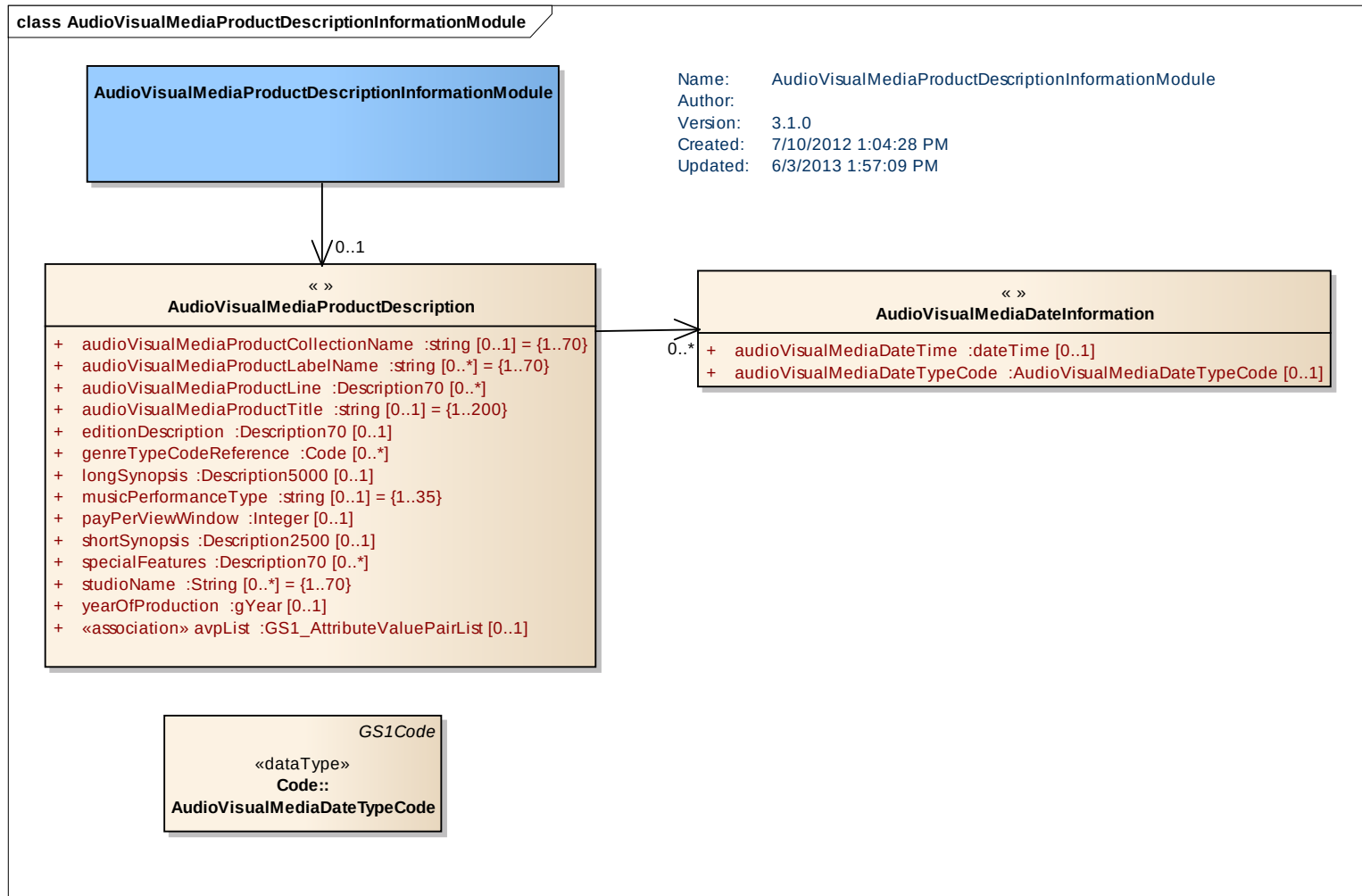


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
AudioVisualMediaContentInformationModule				Information on the media included in the package for the purposes of storing the software, games, music, films.
Association		AudioVisualMediaContentInformation	0..*	Information on the media included in the package for the purposes of storing the software, games, music, films.
AudioVisualMediaContentInformation				Information on the media included in the package for the purposes of storing the software, games, music, films.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		DistributionMediaContentInformation	0..*	Information on the content of the distribution media.
Attribute	distributionMediaCount	nonNegativeInteger	0..1	The quantity of media storage devices that are included in the package for the purposes of storing the software.
Attribute	distributionMediaTypeCode	DistributionMediaTypeCode	0..*	The type of media storage devices that are included in the package for the purposes of storing the software for example memory sticks, discs, cartridges.
Attribute	dvdRegionCode	DVDRegionCode	0..1	A code that identifies the region in which the DVD will be sold. Only DVDs and DVD players with matching codes will work unless the DVD player has been "de-zoned".

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	gameFormatCode	GameFormatCode	0..1	Code that identifies the electronic environment or system needed to use the electronic game. For example X-Box, Game Cube, PS2
Attribute	isDigitalDownloadAvailable	NonbinaryLogicEnumeration	0..1	Indicates if the title is available in the digital download format.
Attribute	runTimeMinutes	nonNegativeInteger	0..1	The length of a media item expressed in minutes.
Attribute	softwareCategoryTypeDescription	Description500	0..*	The general category of software by which the item is most closely associated, computers, mobile, GPS, gaming, marine etc..
AudioVisualMediaContributor				Information on the contributor to the audio, visual media item for example artist or producer.
Attribute	audioVisualMediaItemContributorTypeCode	AudioVisualMediaContributorTypeCode	1..1	A code identifying the type of contributor to media content for example artist, producer, director.
Attribute	audioVisualMediaItemContributorName	string	0..1	The name of the contributor of the media content for example artist, producer, director.
AudioVisualMediaLanguageInformation				Logical Grouping of Information relating to the language of an audio, visual or media related trade item..
Attribute	availableLanguageCode	LanguageCode	0..*	The available languages used to interface with the consumer.
Attribute	closedCaptioningCode	ClosedCaptioningCode	0..1	A code that indicates if the film has closed captions, no closed captions or if this information is unknown.
Attribute	originalLanguageCode	LanguageCode	0..1	The code of the language in which the film is released. It is the language spoken on the screen.
DubbedSubtitledInformation				Logical grouping of subtitle information.
Attribute	dubbedSubtitledCode	DubbedSubtitledCode	0..1	A code that indicates if the film is dubbed, subtitled or dubbed and subtitled. Subtitled = the film has caption translating dialogue. Dubbed = The film has a translated alternative soundtrack. Dubbed and subtitled = the film has caption to translate dialogue and a translated soundtrack.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	dubbedLanguageCode	LanguageCode	0..*	A code that identifies the dubbed language of a film.
Attribute	subtitledLanguageCode	LanguageCode	0..*	A code that identifies the language used in a trade item's subtitles.
DistributionMediaContentInformation				Logical grouping of information relating to the content of a particular distribution media.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		DubbedSubtitledInformation	0..1	Logical grouping of subtitle information.
Association		DistributionMediaTrackInformation	0..*	Logical grouping of information relating to the content of a particular distribution media
Association		AudioVisualMediaLanguageInformation	0..1	Language information for the audio visual media product.
Association		AudioVisualMediaContributor	0..*	Information on any contributors to the audio visual media item for example producer.
Attribute	discNumber	nonNegativeInteger	0..1	The number allocated to a disc, beginning with 1
DistributionMediaTrackInformation				Logical grouping of information relating to the content of a particular distribution media
Association		AudioVisualMediaContributor	0..*	Information on any contributors to the audio visual media item for example producer.
Attribute	trackNumber	nonNegativeInteger	1..1	The number allocated to a disc, beginning with 1
Attribute	trackTime	string	0..1	The length of the track expressed in hours and minutes and seconds.
Attribute	trackTitle	Description70	0..1	The name of the the track or section of the audio visual media trade item.

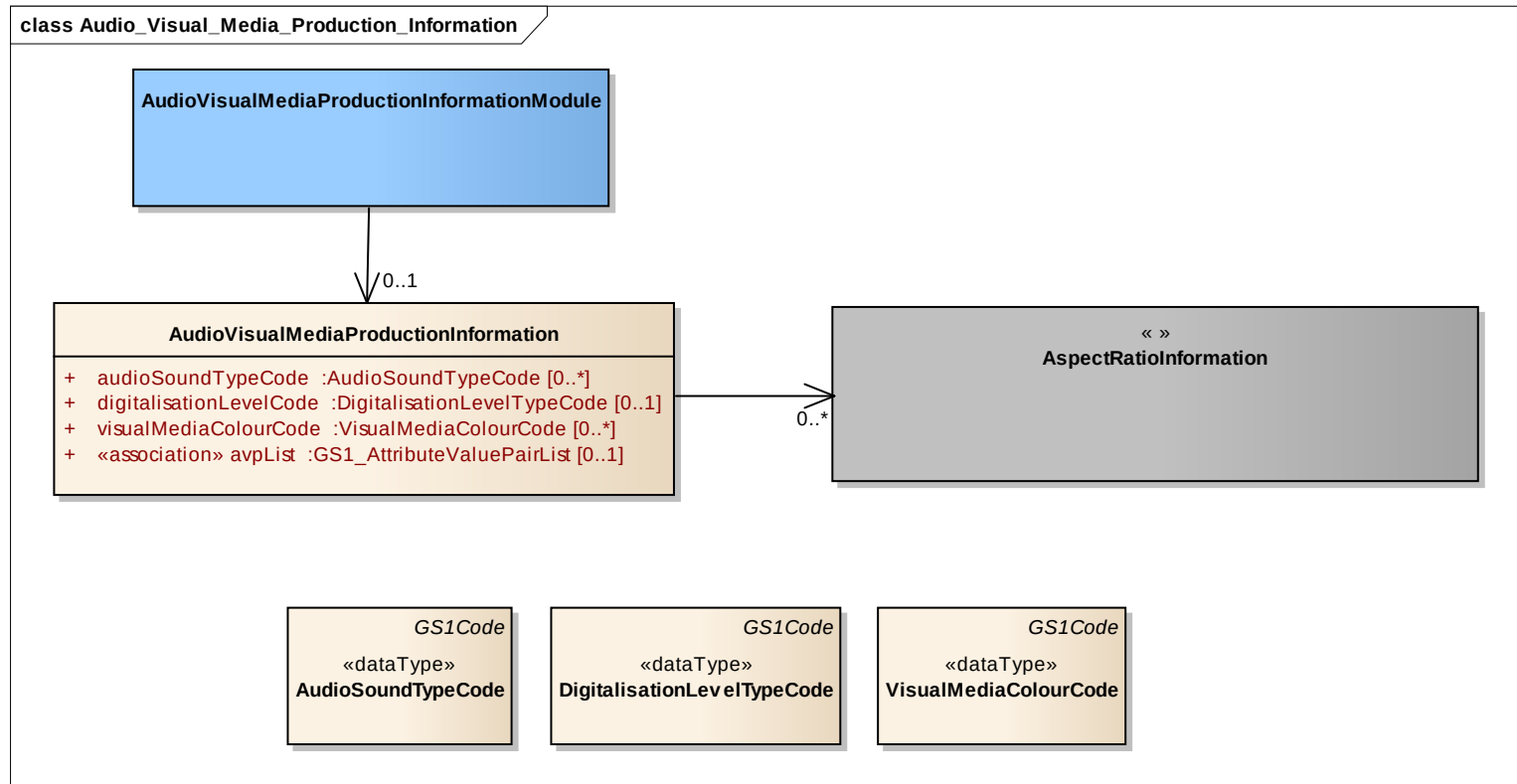
5.7. Audio Visual Media Product Description Module



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
AudioVisualMediaDate Information				Information on dates that are specific to audio visual media products for example release date.
Attribute	audioVisualMedia DateTime	dateTime	0..1	The date for audio or visual media products for example release date.
Attribute	audioVisualMedia DateTypeCode	AudioVisualMediaDateType Code	0..1	A code specifying the type of date for audio or visual media products for example release date.
AudioVisualMediaProductDescriptionInformationModule				A module containing information on the genre and content of an entertainment related product (eg. movies, music) including format and genre.
Association		AudioVisualMediaProductDescription	0..1	Information on the genre and content of an entertainment related product (eg. movies, music) including format and genre.
AudioVisualMediaProductDescription				Information on the genre and content of an entertainment related product (eg. movies, music) including format and genre.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		AudioVisualMediaDateInformation	0..*	Date information for an audio or visual media product.
Attribute	audioVisualMedia ProductCollection Name	string	0..1	The name of a series of music publications grouped under a common theme. The name of the collection is printed on the package of the trade item.
Attribute	audioVisualMedia ProductLabelName	string	0..*	The name of the company (called label in the music industry) that made the music publication.
Attribute	audioVisualMedia ProductLine	Description70	0..*	The name of the product line that the trade item belongs to. A product line is a price grouping.
Attribute	audioVisualMedia ProductTitle	string	0..1	Title of the audio visual media product.
Attribute	editionDescription	Description70	0..1	A text that describes the edition of the audio or visual media product.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	genreTypeCodeReference	Code	0..*	The code of the genre of media item. The genre is a categorization of the trade item based upon the content and is maintained for marketing and merchandising purposes. The GS1 Code List used differs based on product: • Product Genre Type Code (Electronic Games) • Product Genre Type Code (Film) • Product Genre Type Code (Music).
Attribute	longSynopsis	Description5000	0..1	An extended text that describes the plot of a film.
Attribute	musicPerformanceType	string	0..1	A text description that indicates the conditions in which the recording took place.
Attribute	payPerViewWindow	integer	0..1	The number of days of the pay per view window. The pay per view window is the timeframe when a film is available as pay per view on a cable TV channel.
Attribute	shortSynopsis	Description2500	0..1	A short text that describes the plot of a film.
Attribute	specialFeatures	Description70	0..*	A text that describes the contents of the trade item in terms of special features. This is not related to a specific disk.
Attribute	studioName	string	0..*	The name of the company (called studio in the film industry) that made the publication.
Attribute	yearOfProduction	gYear	0..1	The year during which the film was produced.

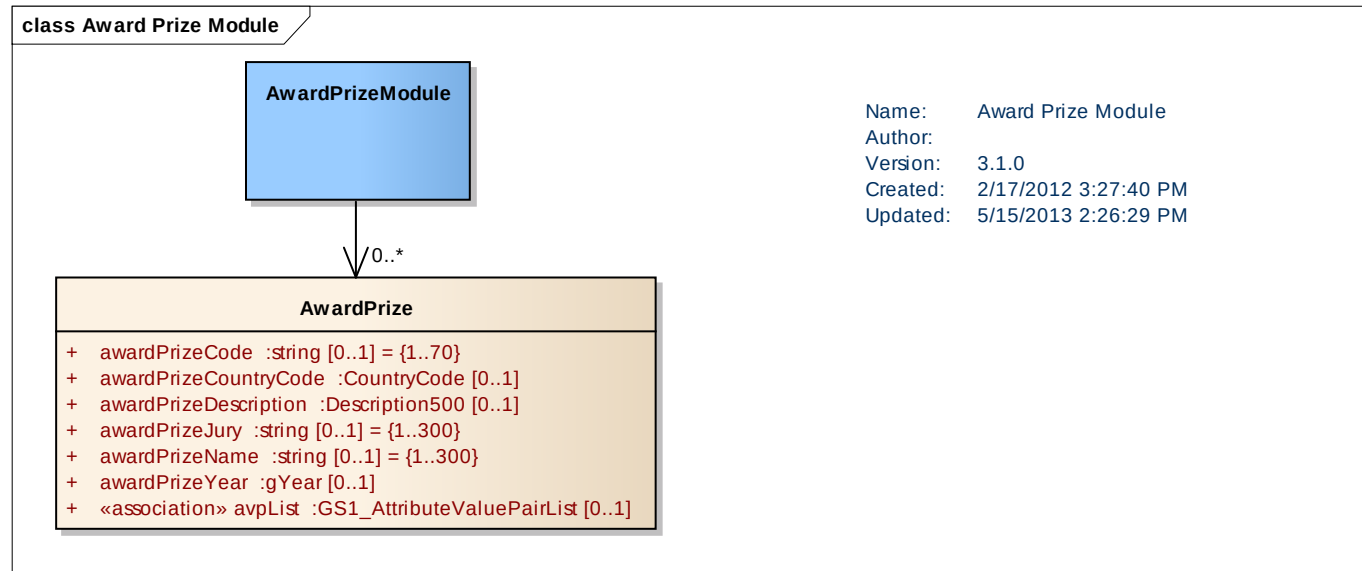
5.8. Audio Visual Media Production Information Module



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
AudioVisualMediaProd uctionInformation				Information on the production of the audio, visual or media publication.
Association	avpList	GS1_AttributeValuePairL ist	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Association		AspectRatioInformation	0..*	Aspect Ratio information for an audio visual media product.
Attribute	audioSoundTypeCode	AudioSoundTypeCode	0..*	A code that indicates the type of audio sound available on the trade item.
Attribute	digitalisationLevelCode	DigitalisationLevelTypeCode	0..1	A code that indicates the way a record was produced. Three stages are involved in production: recording, editing/mixing and dubbing/transfer. Recording and editing/mixing stages can be analogue or digital. If digital, the stage is coded D. If analogue, the stage is coded A. "ADD" means that the recording was analogue and the editing/mixing was digital.
Attribute	visualMediaColourCode	VisualMediaColourCode	0..*	A code that indicates the colour system used in a film publication.
AudioVisualMediaProductionInformationModule				Information on the production of the audio.
Association		AudioVisualMediaProductionInformation	0..1	Information on the production of the audio.

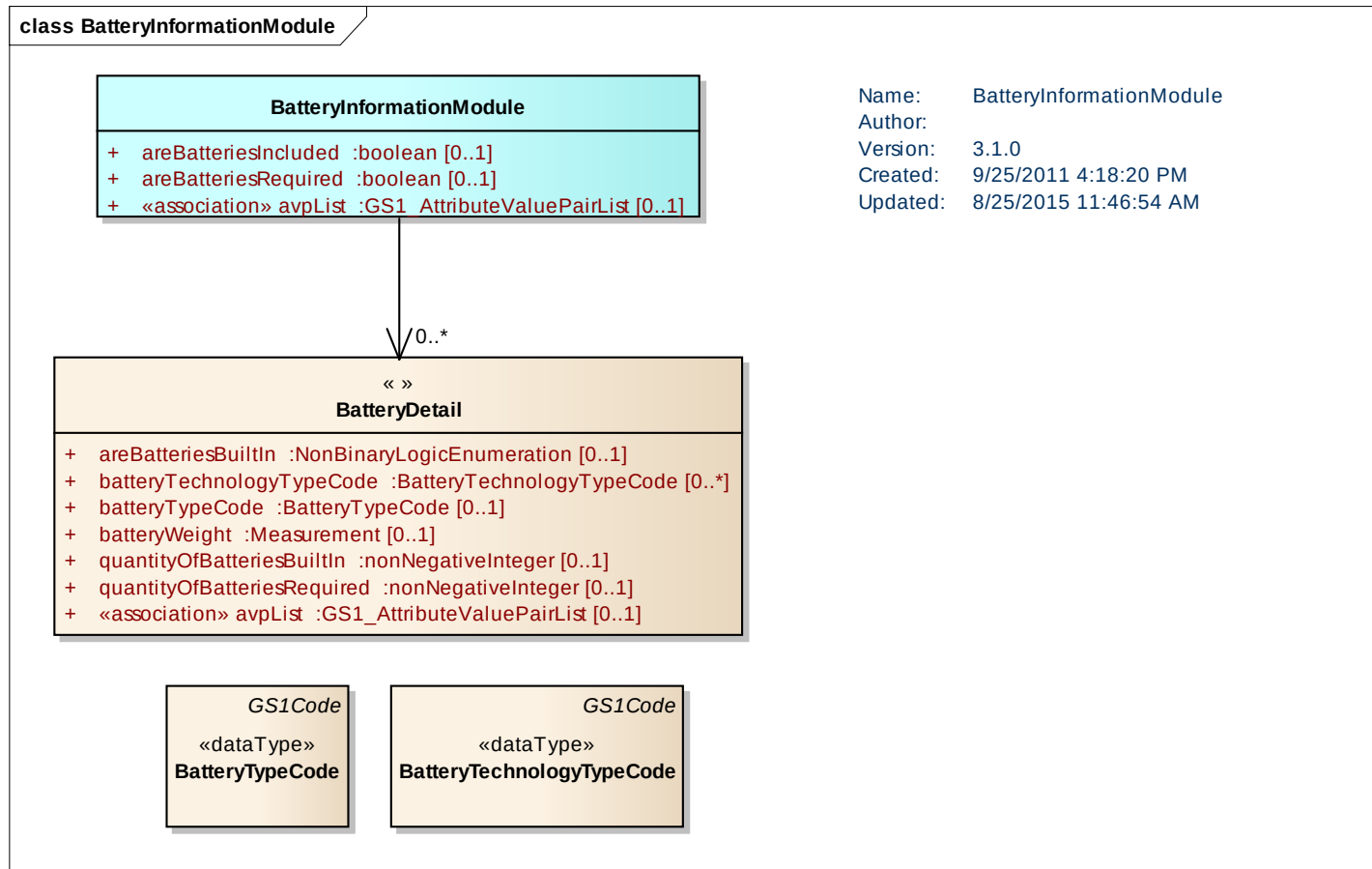
5.9. Award Prize Module



content	attribute / role	datatype /secondary class	multipl icity	definition
AwardPrize				Describes a prize or award won by the product.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	awardPrizeC ode	string	0..1	Indicates the achievement of the product in relation to a prize or award, eg winner, runner-up, shortlisted. Optional and non-repeating.
Attribute	awardPrizeC ountryCode	CountryCode	0..1	An ISO standard code identifying the country in which a prize or award is given
Attribute	awardPrizeD escription	Description500	0..1	A text that describes the awards a film won.
Attribute	awardPrizeJ ury	string	0..1	Free text listing members of the jury that awarded the prize.

content	attribute / role	datatype /secondary class	multipl icity	definition
Attribute	awardPrizeName	string	0..1	The name of a prize or award which the product has received.
Attribute	awardPrizeYear	gYear	0..1	The year in which a prize or award was given.
AwardPrizeModule				A module describing a prize or award won by the product.
Association		AwardPrize	0..*	Describes a prize or award won by the product.

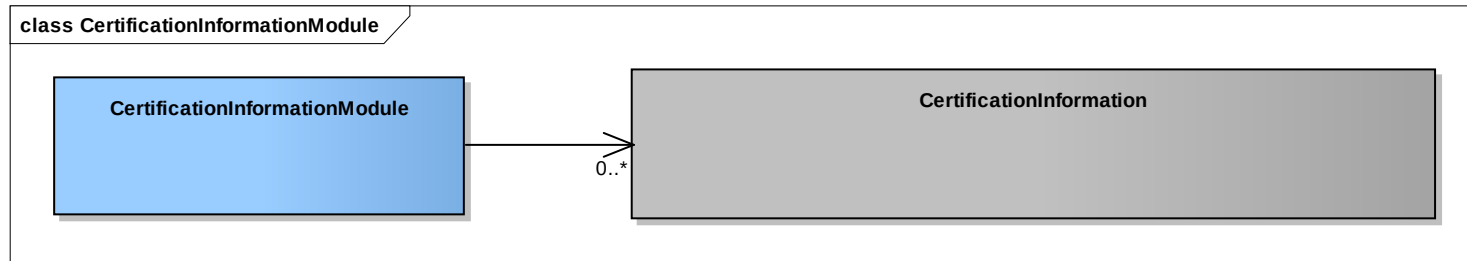
5.10. Battery Information Module



content	attribute / role	datatype /secondary class	multipli city	definition
BatteryInformatio nModule				Battery information for a trade item.

content	attribute / role	datatype /secondary class	multipli city	definition
Association	avpList	GS1_AttributeVal uePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		BatteryDetail	0..*	Battery details for a trade item.
Attribute	areBatteriesInclude d	boolean	0..1	Indicates if batteries are either included or not included with the trade item.
Attribute	areBatteriesRequire d	boolean	0..1	Indicates if batteries are required to operate the trade item.
BatteryDetail				Logical grouping of information related to the type of battery required for a trade item.
Association	avpList	GS1_AttributeVal uePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	areBatteriesBuiltIn	NonBinaryLogicE numeration	0..1	This code is defined as an indicator whether or not any batteries included with the trade item are built into the trade item during manufacturing. and cannot be changed or removed.
Attribute	batteryTechnologyT ypeCode	BatteryTechnolog yTypeCode	0..*	The type of battery family (e.g. Lithium, NiMH) of batteries used by the product.
Attribute	batteryTypeCode	BatteryTypeCode	0..1	Type of battery required to operate the game. If "Are Batteries Required" or if "Quantity of Batteries" is populated or if "Are Batteries Included = "Yes" this attribute is required.
Attribute	batteryWeight	Measurement	0..1	The weight of each battery included with or built into the trade item.
Attribute	quantityOfBatteries BuiltIn	nonNegativeInteg er	0..1	The quantity of batteries built into the trade item during manufacturing. This includes batteries that can or cannot be changed or removed.
Attribute	quantityOfBatteries Required	nonNegativeInteg er	0..1	The number of batteries required to operate the trade item.

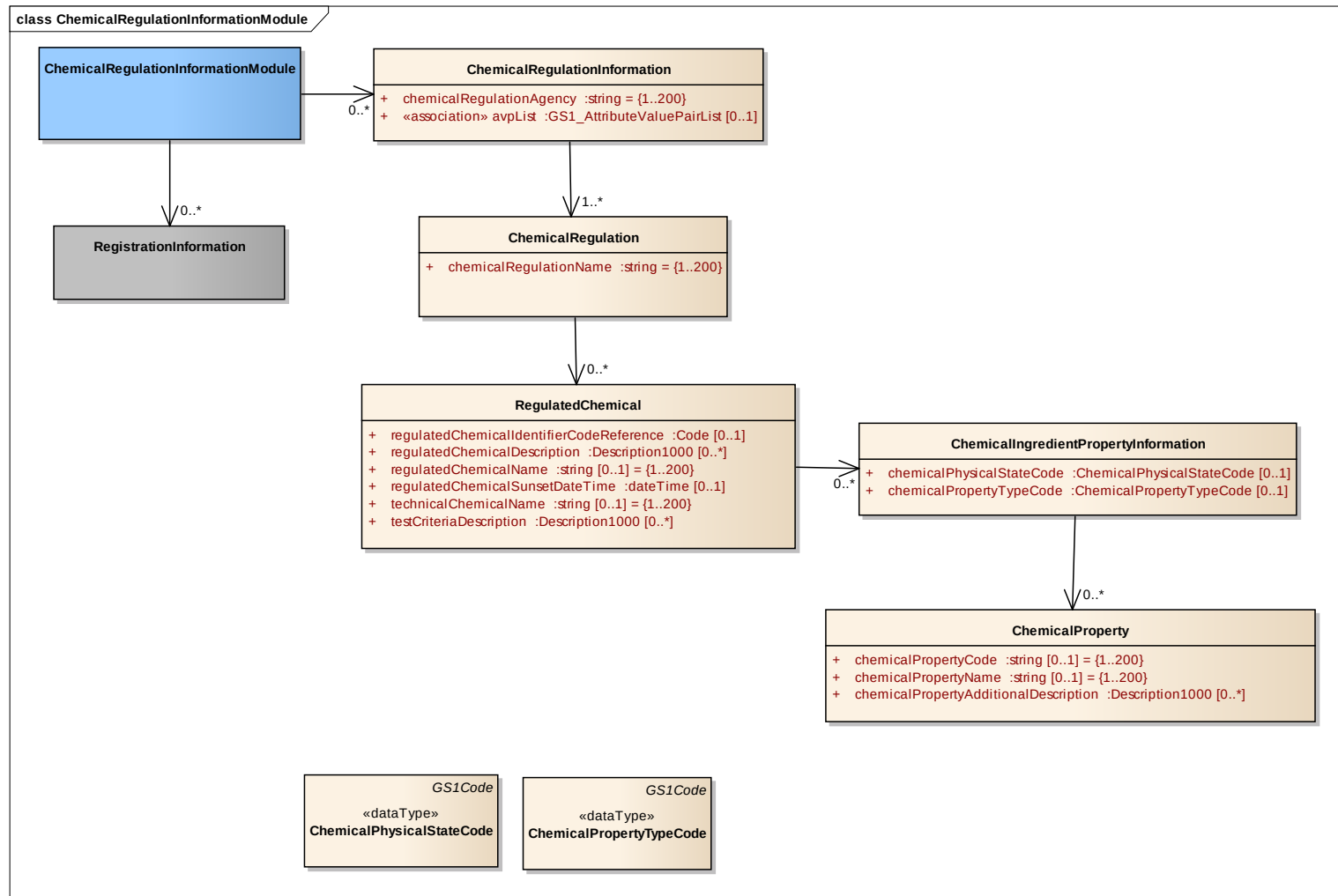
5.11. Certification Information Module



Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multipli city	definition
CertificationInform ationModule				A module containing information on certification standards to which the trade item, or the process by which it is manufactured, sourced or supplied complies.
Association		CertificationInforma tion	0..*	Information on certification standards to which the trade item, or the process by which it is manufactured, sourced or supplied complies.

5.12. Chemical Regulation Information Module

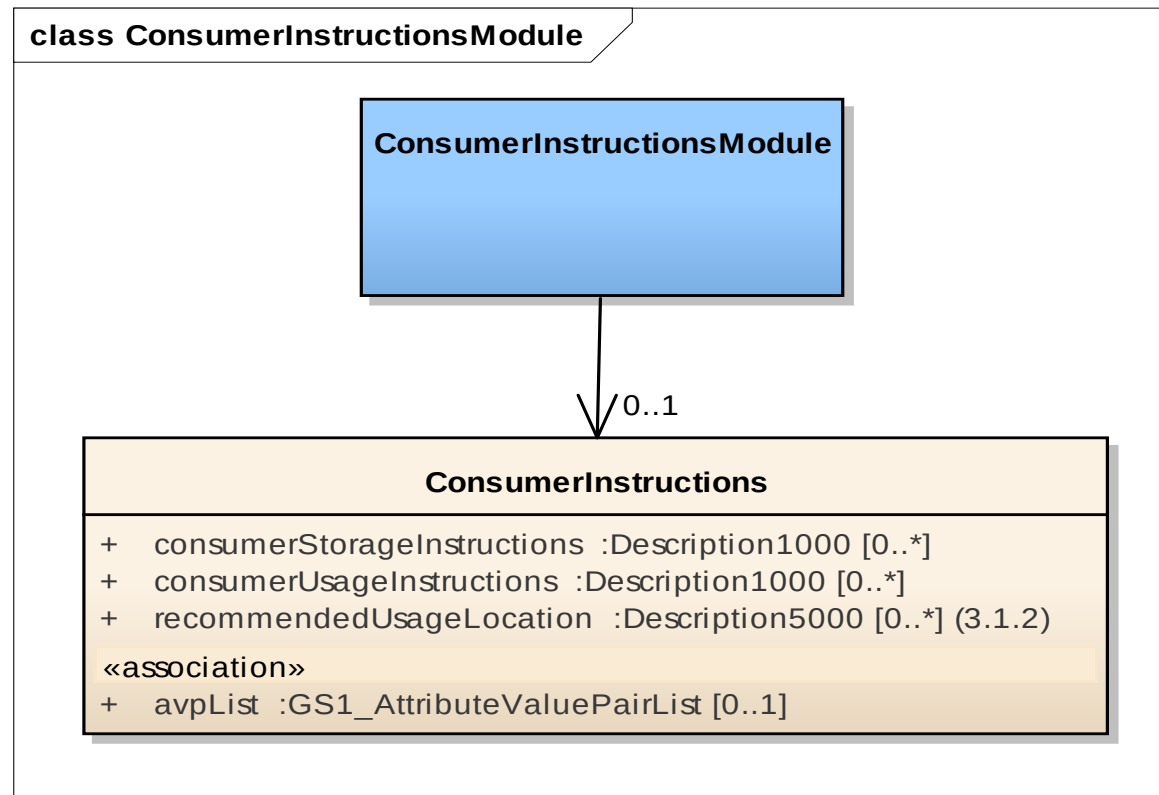


Note: Common class (in grey) is located in the GDSN Common Library.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
ChemicalIngred ientPropertyI nformation				Information on any chemical properties a chemical may have according to a specific regulation for example carcinogen.
Association		ChemicalProperty	0..*	Chemical property information for a regulated chemical.
Attribute	chemicalPhysicalStateCode	ChemicalPhysicalState Code	0..1	The state of matter of the trade item, for example LIQUID.
Attribute	chemicalPropertyTypeCode	ChemicalPropertyType Code	0..1	The type of chemical property being described expressed as a code such as TOXICITY.
ChemicalProp erty				A characteristic of a chemical substance for example radionuclide .
Attribute	chemicalPropertyCode	string	0..1	A characteristic of a chemical substance expressed as a code.
Attribute	chemicalPropertyName	string	0..1	A characteristic of a chemical substance expressed as a name for example radionuclide.
Attribute	chemicalPropertyAdditionalDescript ion	Description1000	0..*	A description of any conditions regarding a toxicity property for example a route of exposure and a target organ (e.g. inhalation and lungs).
ChemicalRegu lation				A regulation managed by a regulatory agency to designed to restrict the handling, use, disposal of chemical ingredients for example Right to Know or CERCLA.
Association		RegulatedChemical	0..*	A chemical regulated by a chemical regulation.
Attribute	chemicalRegulationName	string	1..1	The name of a regulation managed by a regulatory agency designed to restrict the handling, use, disposal of chemical ingredients for example Right to Know or CERCLA.
ChemicalRegu lationInformati on				Provides information on any chemical lists that pertain to the trade item for example CERCLA Priority List.
Association	avpList	GS1_AttributeValuePair List	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		ChemicalRegulation	1..*	A regulation managed by a regulatory agency to designed to restrict the handling, use, disposal of chemical ingredients for example Right to Know or CERCLA.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Attribute	chemicalRegulationAgency	string	1..1	An agency that regulates chemicals for example the US Environmental Protection Agency.
RegulatedChemical				Provides details on any chemical regulated by a chemical regulation.
Association		ChemicalIngredientPropertyInformation	0..*	Provides any required chemical property for example Toxicity.
Attribute	regulatedChemicalIdentifierCodeReference	Code	0..1	An identifier for a regulated chemical for example a CAS number.
Attribute	regulatedChemicalDescription	Description1000	0..*	A text description of the regulated chemical or formula.
Attribute	regulatedChemicalName	string	0..1	The name of a chemical regulated by a chemical regulation for example Chlorobenzene.
Attribute	regulatedChemicalSunsetDateTime	dateTime	0..1	As the date from which the placing on the market and the use of a substance is prohibited or restricted.
Attribute	technicalChemicalName	string	0..1	The official technical name for a chemical as required by a managing agency for example mercuric chloride.
Attribute	testCriteriaDescription	Description1000	0..*	A description of any the criteria or test data being used to determine if a regulated chemical for example "Subject to Acute toxicity tests".
ChemicalRegulationInformationModule				A module containing information on any chemical properties a chemical may have according to a specific regulation for example carcinogen.
Association		RegistrationInformation	0..*	Registration information for a chemical or substance for example a pesticide.
Association		ChemicalRegulationInformation	0..*	Information on any chemical properties a chemical may have according to a specific regulation for example carcinogen.

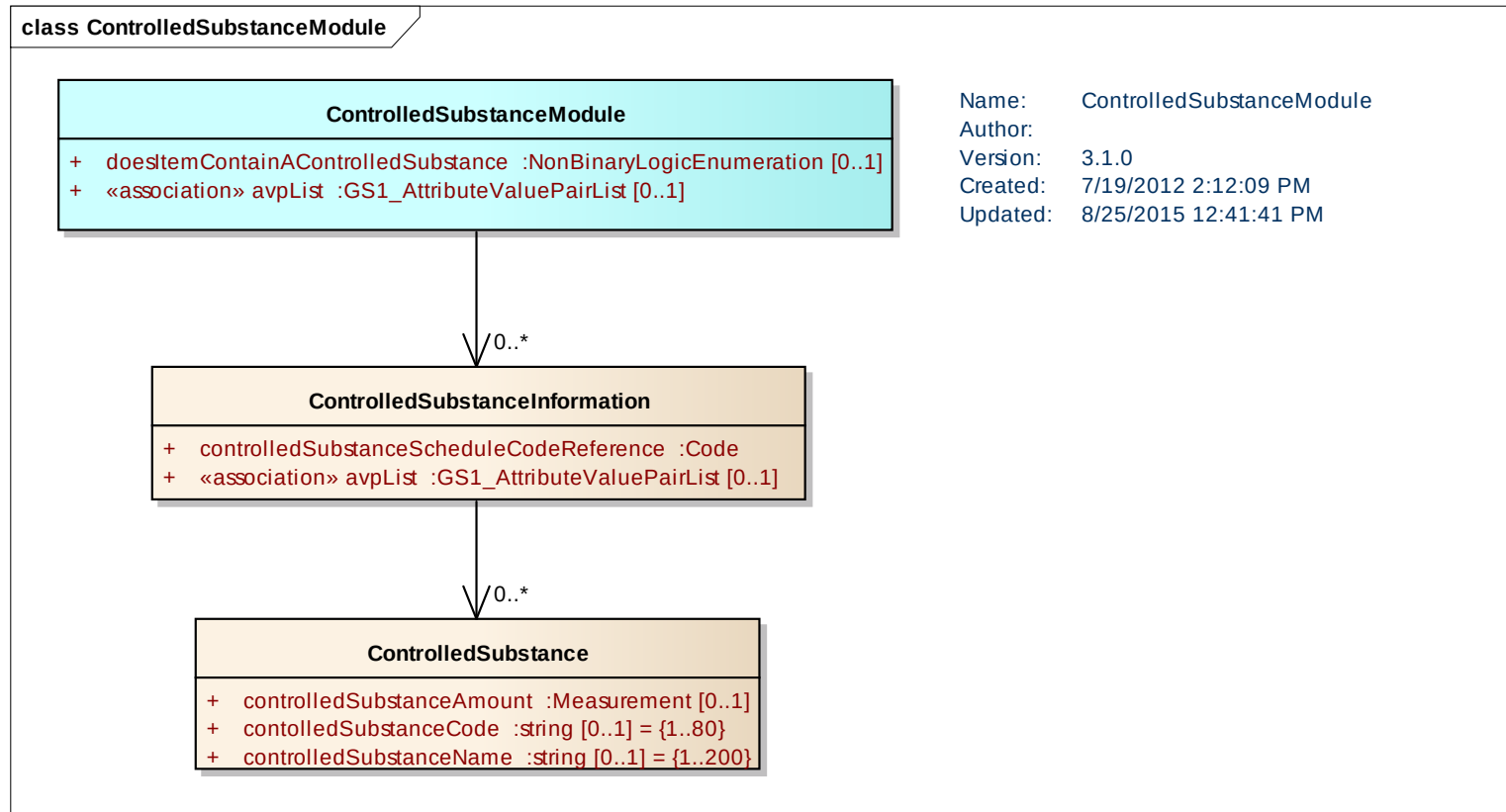
5.13. Consumer Instructions Module



content	attribute / role	datatype /secondary class	multipl city	definition
ConsumerInstructi onsModule				A module contain instructions on how the consumer is to use or store a trade item.
		ConsumerInstructio ns	0..1	Instructions on how the consumer is to use or store a trade item.
ConsumerInstructi ons				Instructions on how the consumer is to use or store a trade item.

content	attribute / role	datatype /secondary class	multipli city	definition
	consumerStorageInst ructions	Description1000	0..*	Expresses in text the consumer storage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to a suggested storage temperature, a specific storage requirement.
	consumerUsageInstr uctions	Description1000	0..*	Expresses in text the consumer usage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to a the how the consumer is to use the product, This does not include storage, food preparations, and drug dosage and preparation instructions.
attribute	recommendedUsage Location	Description5000	0..*	The primary location recommended for the item's use for example indoor, outdoor, indoor/outdoor, vehicle, kitchen, etc.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

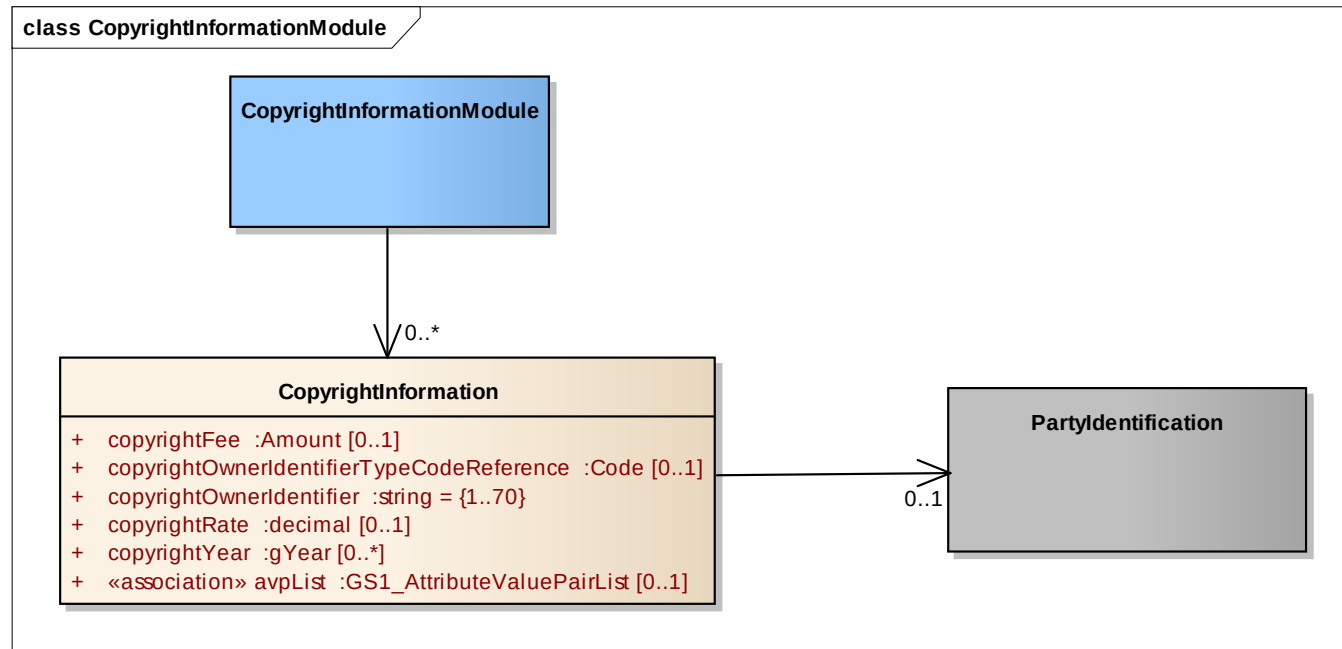
5.14. Controlled Substances Module



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
ControlledSubstance				Information on the containment of controlled substances
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Attribute	controlledSubstance Amount	Measurement	0..1	The numeric amount of a specific substance the item contains that is regulated under law as narcotics, stimulants, depressants, hallucinogens, anabolic steroids, and chemicals used in the illicit production of controlled substances
Attribute	controlledSubstanceC ode	string	0..1	A code identifying the specific substance the item contains that is regulated under law as narcotics, stimulants, depressants, hallucinogens, anabolic steroids, and chemicals used in the illicit production of controlled substances
Attribute	controlledSubstance Name	string	0..1	The name of a specific substance the item contains that is regulated under law as narcotics, stimulants, depressants, hallucinogens, anabolic steroids, and chemicals used in the illicit production of controlled substances
ControlledSubstanceInformation				Information on controlled substances based upon the degree of the substance's medicinal value, harmfulness, and potential for abuse or addiction.
Association		ControlledSubstance	0..*	Information on the containment of controlled substances.
Attribute	controlledSubstance ScheduleCodeReference	Code	1..1	A code that rates a controlled substance based upon the degree of the substance's medicinal value, harmfulness, and potential for abuse or addiction
ControlledSubstanceModule				Information on the containment of controlled substances.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		ControlledSubstance Information	0..*	Controlled Substance Information for a trade item.□
Attribute	doesItemContainAControlledSubstance	NonBinaryLogicEnumeration	0..1	Indicates whether the item contains substances that are regulated under law as narcotics, stimulants, depressants, hallucinogens, anabolic steroids, and chemicals used in the illicit production of controlled substances

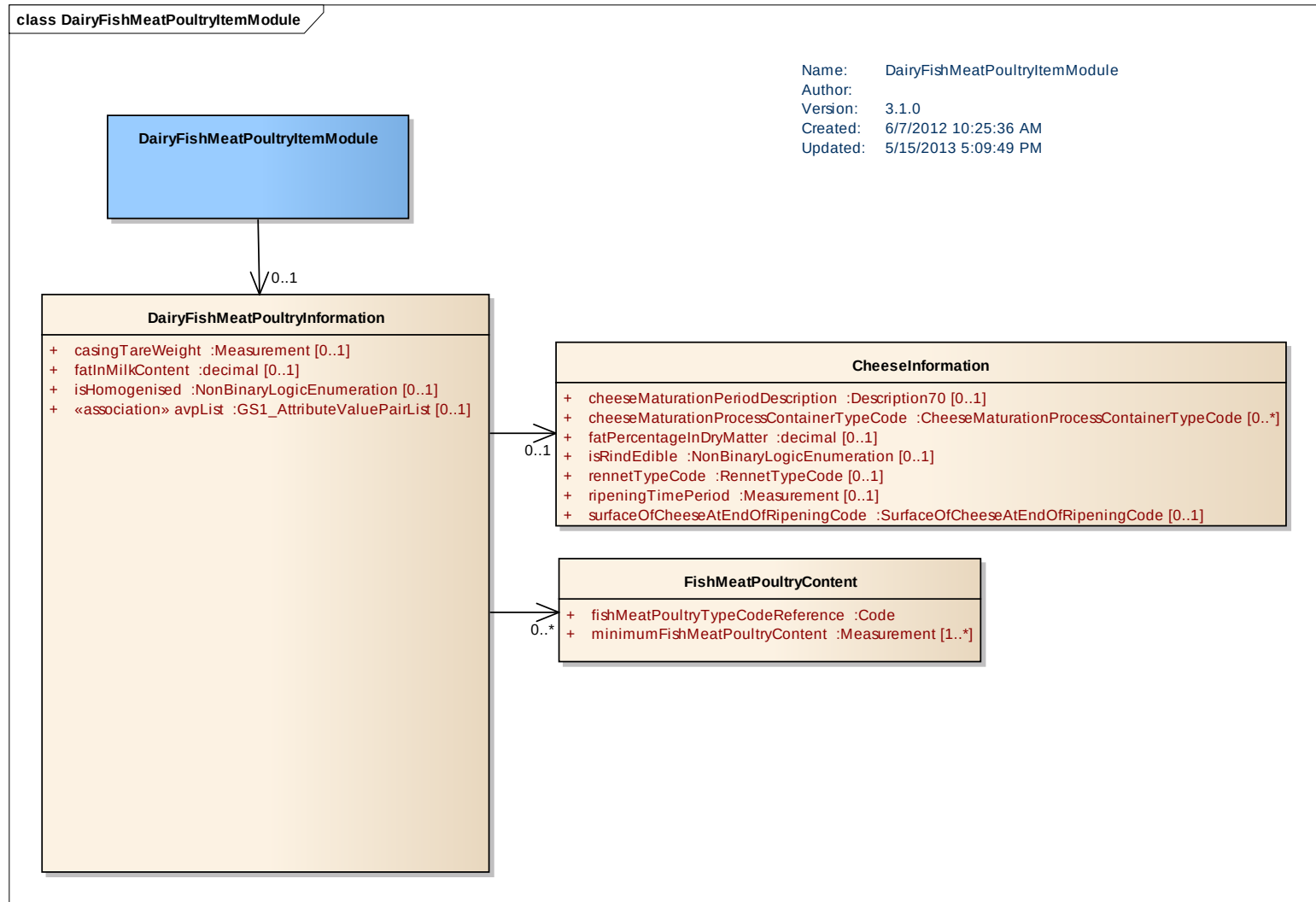
5.15. Copyright Information Module

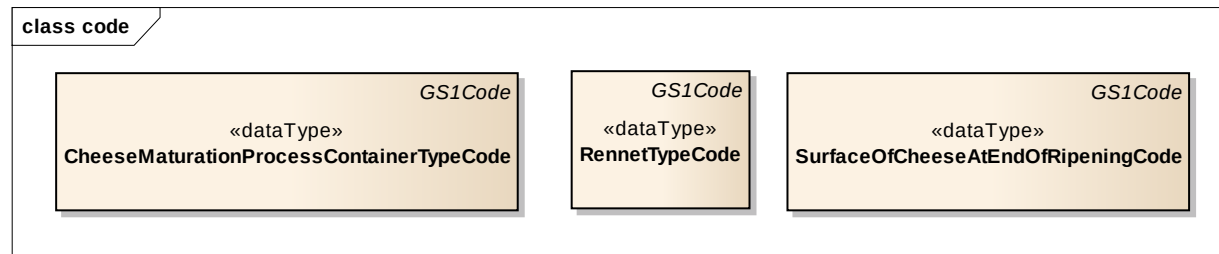


Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
CopyrightInformati on				A group of data elements which together represent a copyright statement for the product.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		PartyIdentification	0..1	GS1 Party Identification for a Publication Copyright
Attribute	copyrightFee	Amount	0..1	A fee paid to the content owner for use of the Trade Item or an associated part of the Trade Item.
Attribute	copyrightOwnerIde ntifierTypeCodeRef erence	Code	0..1	Identifies the scheme from which the value in the copyrightOwnerIdentifier attribute is taken.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Attribute	copyrightOwnerIdentifier	string	1..1	An identifier of the owner of the copyright on a trade item. This could be the person who creates a piece of work though it may also be a company that pays a person to create a work.
Attribute	copyrightRate	decimal	0..1	A rate paid to the content owner for use of the trade item or an associated part of the trade item.
Attribute	copyrightYear	gYear	0..*	The copyright year as it appears in a copyright statement on the product.
CopyrightInformationModule				A group of data elements which together represent a copyright statement for the product.
Association		CopyrightInformation	0..*	A group of data elements which together represent a copyright statement for the product.

5.16. Dairy Fish Meat Poultry Item Module

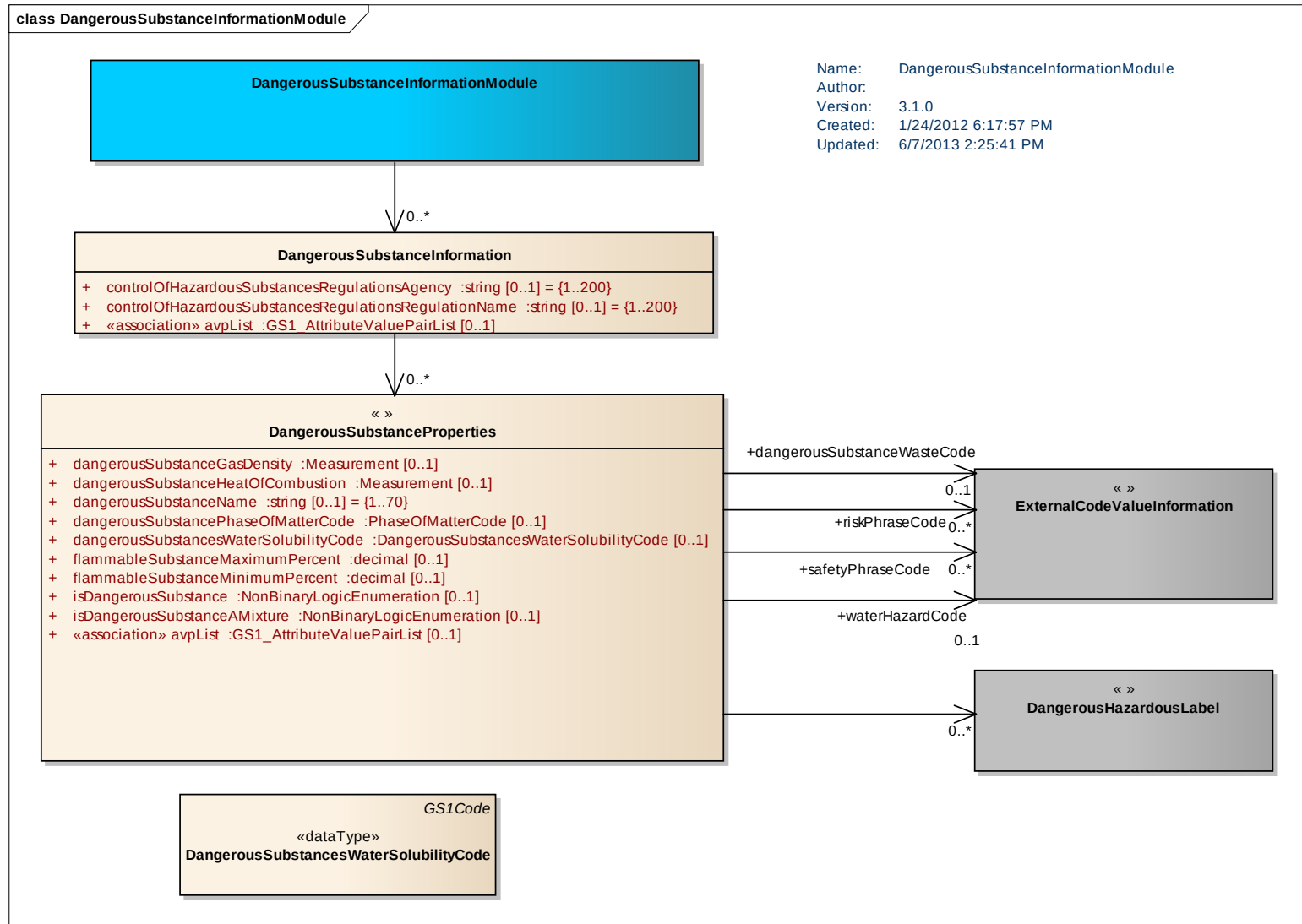




Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
DairyFishMeatPoultryItemModule				Content and processing related information specific to dairy, fish, meat and poultry products.
Association		DairyFishMeatPoultryInformation	0..1	Content and processing related information specific to dairy, fish, meat and poultry products.
CheeseInformation				Trade Item information related to Cheese
Attribute	cheeseMaturationPeriodDescription	Description70	0..1	A descriptive way to specify a date range as some cheeses are matured over a period of time, but not an exact period. For example 3 to 4 weeks, over 1 year etc. The term maturation is also known in other markets as Aged.
Attribute	cheeseMaturationProcessContainerTypeCode	CheeseMaturationProcessContainerTypeCode,	0..*	The type of container that the process of maturation cheese occurs in. The container directly influences the flavour of the cheese. The term maturation is also known in other markets as Aged.
Attribute	fatPercentageInDryMatter	Decimal	0..1	The amount of fat contained in the base product expressed in percentage.
Attribute	isRindEdible	NonBinaryLogicEnumeration	0..1	An indicator whether or not the cheese rind is edible. Some cheeses are coated in plastic or their surface is treated with other traditional substances to increase their shelf life. This can result in the rind no longer being edible.
Attribute	rennetTypeCode	RennetTypeCode	0..1	The type of rennet used for coagulation. The enzyme rennet is used for the coagulation of the cheese mass. Rennet and respectively similar enzymes can be gained through various processes.
Attribute	ripeningTimePeriod	Measurement	0..1	The period of time for ripening the cheese. During ripening the aroma and consistency of a cheese constantly changes. The character of a cheese is thus strongly determined by the period of ripening. Depending on personal preference, the end consumer prefers either a "young" or a "mature" cheese.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	surfaceOfCheeseAtEndOfRipeningCode	surfaceOfCheeseAtEndOfRipeningCode	0..1	The representation of whether or not a cheese contains a rind at the end of the maturing process. A Rind is the outside shell of cheese that forms during the cheese making process. Rinds are natural and usually edible, as opposed to other coverings, such as wax and cloth, that are inedible.
DairyFishMeatPoultryInformation				Content and processing related information specific to dairy, fish, meat and poultry products.
Attribute	fatInMilkContent	Decimal	0..1	The percentage of fat contained in milk content of the product.
Attribute	isHomogenised	NonBinaryLogicEnumeration	0..1	The indication whether or not the milk used was actively homogenised. The homogenisation of milk is a technical process in the dairy. The milk fat is milled to such an extent that further creaming is prevented.
Attribute	casingTareWeight	Measurement	0..1	The weight measurement of the "food casing". A casing for food products is a flexible tubing into which foods are stuffed to provide a skin-tight covering. Used in packaging prepared meats, poultry, cheese, and other food products. Casings may be made of animal intestines or synthetic materials such as regenerated cellulose, various plastics, fibrous compounds, and rubber film. "Tare Weight – food casing" applies to the "each" level.
Association		CheeseInformation	0..1	Information specific to cheese trade items.
Association		FishMeatPoultryContent	0..*	Content and processing related information specific to fish, meat and poultry products.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
FishMeatPoultryContent				Fish, meat and poultry content of a food and beverage trade item.
Attribute	fishMeatPoultryTypeCodeReference	Code	1..1	The fish, meat, or poultry type for this food and beverage item.
Attribute	minimumFishMeatPoultryContent	Measurement	1..*	The minimum amount of fish, meat or poultry contained in a food and beverage trade item expressed as a measurement.

5.17. Dangerous Substance Information Module





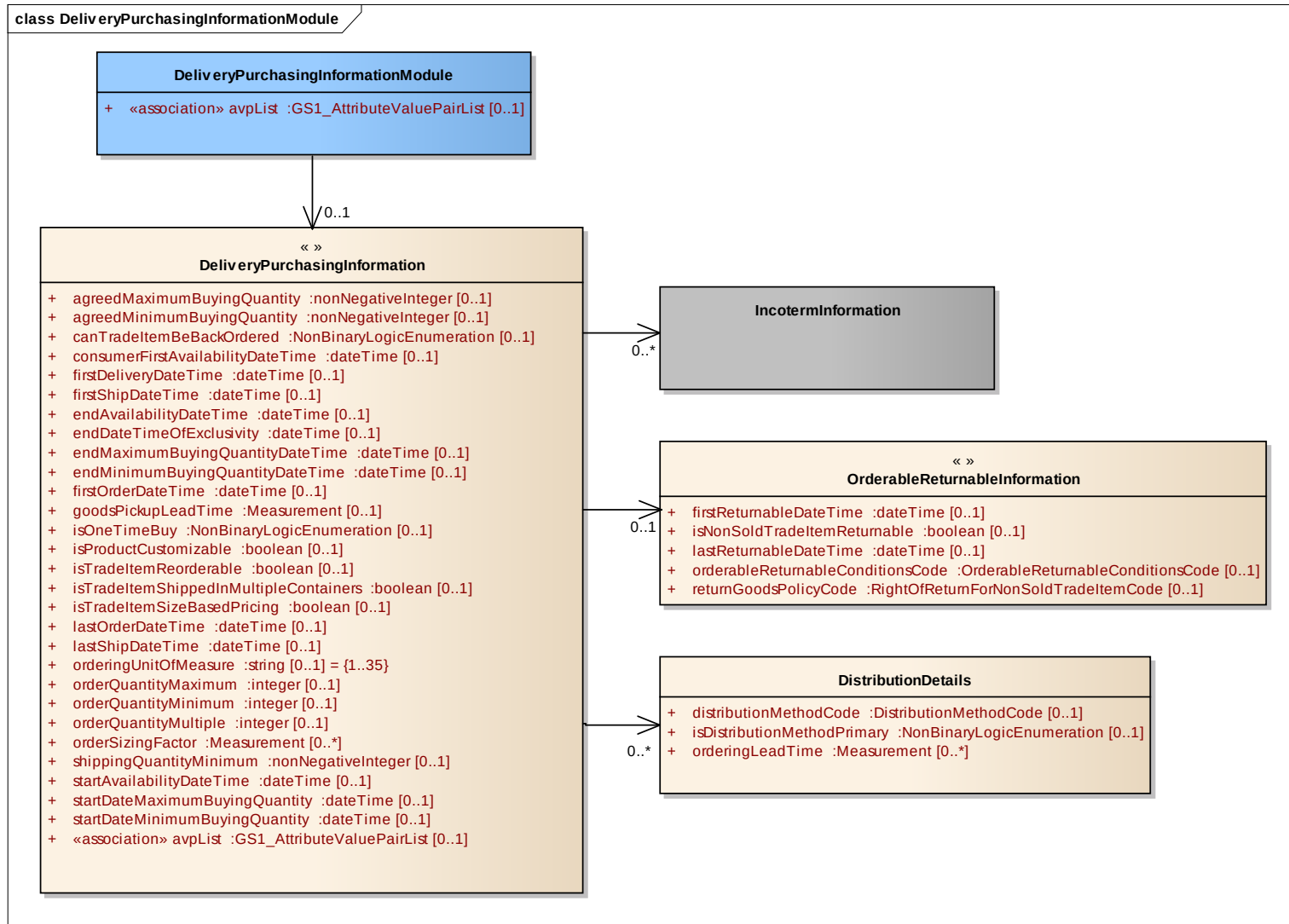
Note: Common class (in grey) is located in the GDSN Common Library.

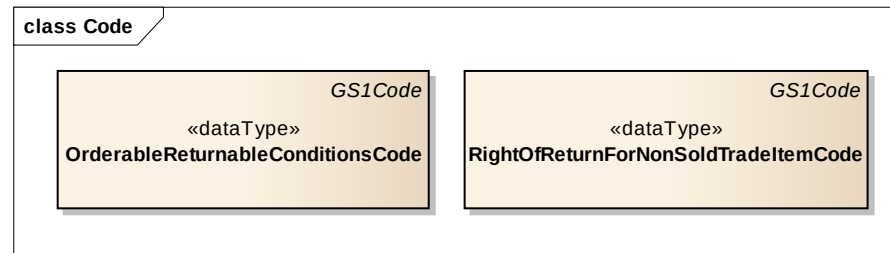
Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
DangerousSubstanceInformationModule				A module detailing substances that can harm people, other living organisms, property, or the environment.
Association		DangerousSubstanceInformation	0..*	Details on substances that can harm people, other living organisms, property, or the environment.
DangerousSubstanceInformation				Details on substances that can harm people, other living organisms, property, or the environment.
Association		DangerousSubstanceProperties	0..*	Properties of a dangerous substance.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	controlOfHazardousSubstancesRegulationAgency	string	0..1	The government or agency that owns regulation controlling hazard substances that may apply to the product.
Attribute	controlOfHazardousSubstancesRegulationName	string	0..1	The name of the regulation controlling hazard substances that may apply to the product.
DangerousSubstanceProperties				Details on substances that can harm people, other living organisms, property, or the environment.
Association		GS1_AttributeValuePairList	0..1	Attribute value pair information.
Association		DangerousHazardousLabel	0..*	Information on visible labels on packaging indicating specific risks and required precautions associated with a dangerous/hazardous good.
Association	dangerousSubstanceWasteCode	ExternalCodeValueInformation	0..1	The dangerous substances waste code used to identify the substance's dangerous waste for example the European Waste Catalogue.
Association	riskPhraseCode	ExternalCodeValueInformation	0..*	The abbreviation codes for labelling obligations and special risks (health risks of skin, respiratory organs, swallow, eyes, reproduction) for handling of the substance.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Association	safetyPhraseCode	ExternalCodeValueI nformation	0..*	Safety phrases are defined as safety advice concerning dangerous substances and preparations defined in Annex 3 for example (S1): Keep locked up or S12: Do not keep the container sealed.
Association	waterHazardCode	ExternalCodeValueI nformation	0..1	A code determining the degree to which the product would pose an environmental hazard to water.
Attribute	dangerousSubstance GasDensity	Measurement	0..1	The density of gas contained within the trade item. This can be used by the data receiver to determine the total stored amounts of gas within a storage facility in accordance with dangerous substance regulations. Use appropriate measurement for example in Europe (grams per Cubic Centimetre).
Attribute	dangerousSubstance HeatOfCombustion	Measurement	0..1	The amount of heat generated by the item should it catch on fire expressed as amount of energy per pound for example BTU's (British Thermal Units) per pound.
Attribute	dangerousSubstance Name	string	0..1	The name of the type of dangerous substance contained in the trade item for example Butane.
Attribute	dangerousSubstance PhaseOfMatterCode	PhaseOfMatterCode	0..1	A set of qualitatively different states, depending on temperature and pressure related physical properties. They are divided into solid, liquid,gaseous and mixed forms of the substance.
Attribute	dangerousSubstance sWaterSolubilityCode	DangerousSubstanc esWaterSolubilityCo de	0..1	A code indicating the solubility or miscibility in respect with water. Solubility is the ability of a given substance to dissolve in a solvent. Miscibility is the property of liquids to mix in all proportions, forming a homogeneous solution.
Attribute	flammableSubstance MaximumPercent	decimal	0..1	The maximum percentage of the flammable substance contained in the trade item. This can be used by the data receiver to support determining total stored amounts within a storage facility in accordance with dangerous substance regulations.
Attribute	flammableSubstance MinimumPercent	decimal	0..1	The minimum percentage of the flammable substance contained in the trade item. This can be used by the data receiver to support determining total stored amounts within a storage facility in accordance with dangerous substance regulations.
Attribute	isDangerousSubstan ce	NonBinaryLogicEnu meration	0..1	An indicator whether or not a trade item is classified and labelled as containing a dangerous substance.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Attribute	isDangerousSubstanceAMixture	NonBinaryLogicEnumeration	0..1	An indicator whether or not the dangerous substance is a mixture of several substances.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

5.18. Delivery Purchasing Information Module





Note: Common class (in grey) is located in the GDSN Common Library.

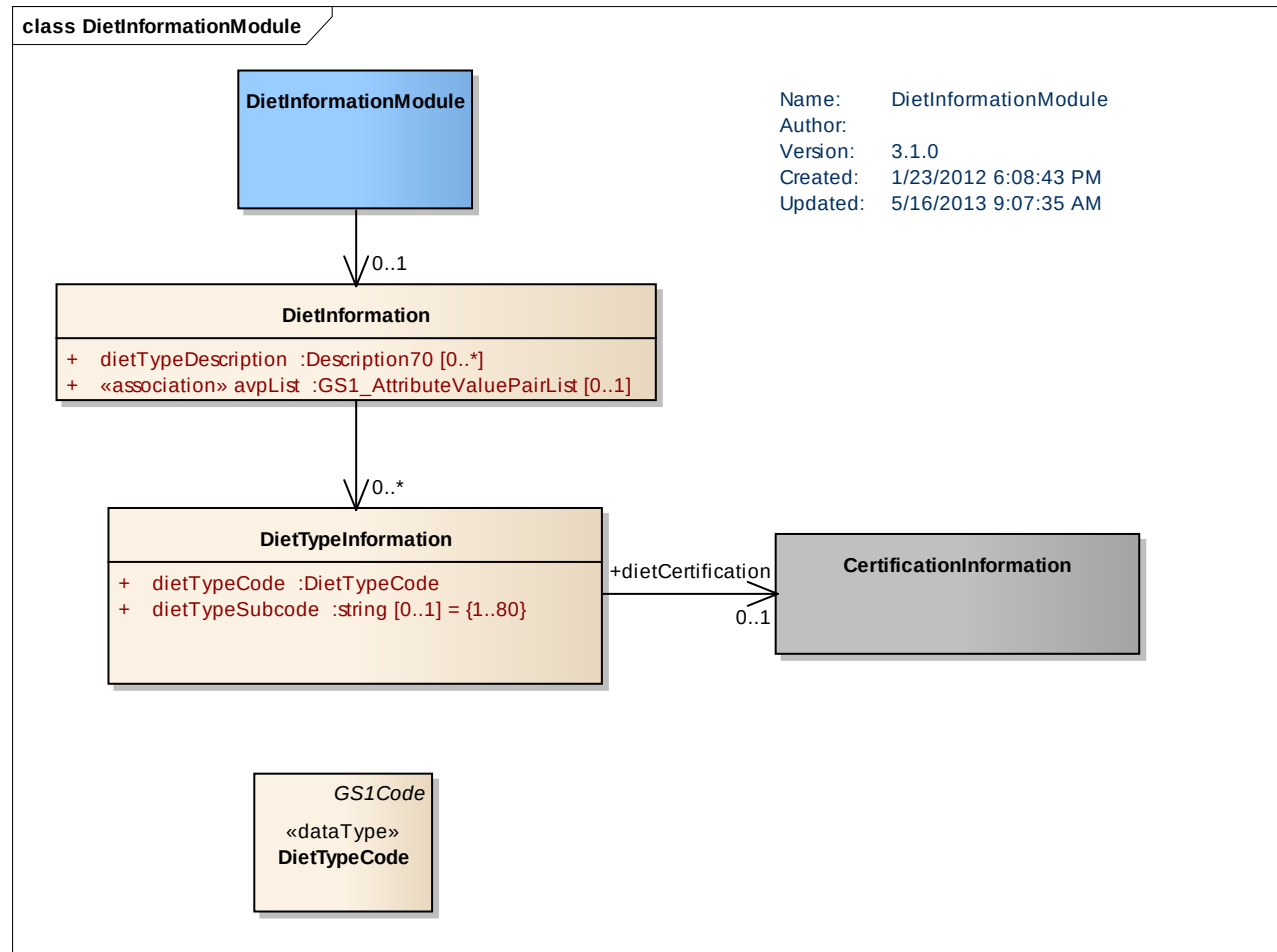
content	attribute / role	datatype /secondary class	multiplicity	definition
OrderableReturnableInformation				Logical Grouping of Orderable Returnable Information
Attribute	firstReturnableDate	dateTime	0..1	The first date on or after which non-sold trade items can be returned. This information provides the retailer with any conditions required by the information provider as to the date on or after which non-sold trade items may be returned in order to receive credit from the appropriate party.
Attribute	isNonSoldTradeItemReturnable	boolean	0..1	Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to General Merchandise, Publishing industries and for some FMCG trade item.
Attribute	lastReturnableDate	dateTime	0..1	The last date and time when a non sold trade item must be received by the manufacturer to receive credit.
Attribute	orderableReturnableConditionsCode	OrderableReturnableConditionsCode	0..1	A code that indicates if the trade item can be ordered and returned if non-sold.
Attribute	returnGoodsPolicyCode	RightofReturnForNonSoldTradeItemCode	0..1	A code that describes the policy for defective, damaged or non-salable goods.
DistributionDetails				Delivery details for a trade item.
Attribute	distributionMethodCode	DistributionMethodCode	0..1	The code value that indicates the method of delivery for the trade item.
Attribute	isDistributionMethodPrimary	NonbinaryLogicEnumeration	0..1	Indicates if the delivery method for the trade item is the primary one.

content	attribute / role	datatype /secondary class	multiplic ity	definition
Attribute	orderingLeadTime	Measurement	0..*	Lead time required for orders expressed in days.
DeliveryPurchasing Information				Purchasing and delivery information for a trade item.
Association		DistributionDetails	0..*	Delivery details for a trade item.
Association		OrderableReturnabl eInformation	0..1	Orderable and returnable information.
Association		IncotermInformation	0..*	Information on any incoterms that are applicable to the trade item.
Attribute	agreedMaximumBuyi ngQuantity	nonNegativeInteger	0..1	The maximum quantity of the product available to the retailer.
Attribute	agreedMinimumBuyin gQuantity	nonNegativeInteger	0..1	Minimum buying quantity agreed between trading partners.
Attribute	canTradeItemBeBack Ordered	NonBinaryLogicEnu meration	0..1	An indicator whether or not a customer's order will be processed or will remain valid when it cannot be filled due to insufficient stock.
Attribute	consumerFirstAvailab ilityDateTime	dateTime	0..1	The first date/time that the buyer is allowed to sell the trade item to consumers. Usually related to a specific geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS.
Attribute	firstDeliveryDateTime	dateTime	0..1	The earliest date at which the supplier can deliver the product to the trading partner.
Attribute	firstShipDateTime	dateTime	0..1	Indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.
Attribute	endAvailabilityDateTi me	dateTime	0..1	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.
Attribute	endTimeOfExclu sivity	dateTime	0..1	The date and time at which a product is no longer exclusive to that trading partner.
Attribute	endMaximumBuying QuantityDateTime	dateTime	0..1	The end date for when the maximum buying quantity is no longer available to the trading partner.
Attribute	endMinimumBuyingQ uantityDateTime	dateTime	0..1	The end date for when the minimum buying quantity is no longer available to the trading partner.
Attribute	firstOrderDateTime	dateTime	0..1	Indicates the earliest date that an order can be placed for the trade item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	goodsPickupLeadTime	Measurement	0..1	Time (in weeks, days, hours ...) required between order entry and the earliest goods release (use for pick-up, not use for delivery). Remark about ordering lead-time : Geographic distance from manufacturing / distribution point to delivery point impacts this value (relationship dependant data).
Attribute	isOneTimeBuy	NonBinaryLogicEnumeration	0..1	An indicator whether or not the item will only be available for order once then discontinued.
Attribute	isProductCustomizable	boolean	0..1	Indicates whether the Items that the Retailer markets are customizable to meet the end consumer's requirements.
Attribute	isTradeItemReorderable	boolean	0..1	This element is an indicator that selected styles or trade items may or may not be re-ordered. It does not imply any information on current availability.
Attribute	isTradeItemShippedInMultipleContainers	boolean	0..1	Indicates that more than one box is to be delivered when the trade item is ordered.
Attribute	isTradeItemSizeBasedPricing	boolean	0..1	This is an indicator that an item may be at a different price point than other similar SKUs (GTIN's price within a Style may differ).
Attribute	lastOrderDateTime	dateTime	0..1	Indicates the latest date that an order can be placed for the trade item.
Attribute	lastShipDateTime	dateTime	0..1	Indicates the latest date that the trade item can be shipped. This is independent of any specific ship-from location.
Attribute	orderingUnitOfMeasure	string	0..1	The alternate Unit of Measure of how Trade Items are ordered by the Retailer under one Unit of Measure, but sold under another Unit of Measure.
Attribute	orderQuantityMaximum	integer	0..1	The maximum quantity of the trade item that can be ordered. A number or a count. This value can represent the total number of units ordered over a set period of time with multiple orders.
Attribute	orderQuantityMinimum	integer	0..1	Represent an agreed to minimum quantity of the trade item that can be ordered. A number or a count. This applies to each individual order. Can be a fixed amount for all customers in a target market.
Attribute	orderQuantityMultiple	integer	0..1	The order quantity multiples in which the trade item may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the trade item can only be ordered in quantities which are divisible by the Order Quantity Multiple of 20.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	orderSizingFactor	Measurement	0..*	A trade item specification other than gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of trade item.
Attribute	shippingQuantityMinimum	nonNegativeInteger	0..1	The minimum total quantity of this trade item that can be shipped.
Attribute	startAvailabilityDateTime	dateTime	0..1	The date (CCYY-MM-DDTHH:MM:SS) from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services.
Attribute	startDateMaximumBuyingQuantity	dateTime	0..1	The start date for when the maximum buying quantity is available to the trading partner.
Attribute	startDateMinimumBuyingQuantity	dateTime	0..1	The start date for when the minimum buying quantity is available to the trading partner.
DeliveryPurchasing InformationModule				A module containing purchasing and delivery information for a trade item.
Association		DeliveryPurchasingInformation	0..1	Purchasing and delivery information for a trade item.
Association		GS1_AttributeValue PairList	0..1	Attribute value pair information for a trade item.

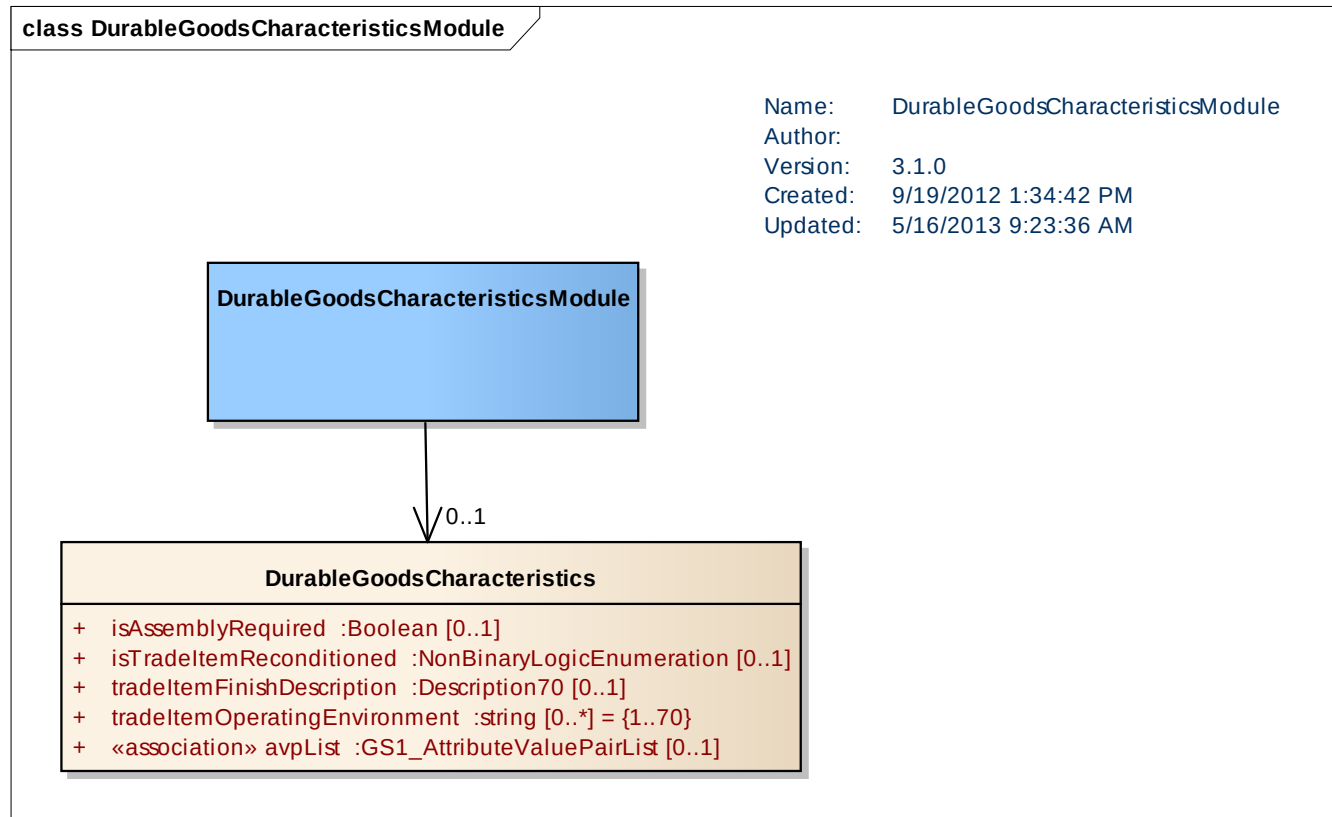
5.19. Diet Information Module



Note: Common class (in grey) is located in the GDSN Common Library.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
DietInformationModule				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 preparation style. This can be i.e. due to religious reasons or restriction of diet reasons.
Association		DietInformation	0..1	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 preparation style. This can be i.e. due to religious reasons or restriction of diet reasons.
DietInformation				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 preparation style. This can be i.e. due to religious reasons or restriction of diet reasons.
Attribute	dietTypeDescription	Description70	0..*	Free text for indication of diet not stated in the list of diets.
Association		DietTypeInfoInformation	0..*	Information on the type of diet.
DietTypeInfoInformation				Information on the type of diet.
Attribute	dietTypeCode	DietTypeCode	1..1	Code indicating the diet the product is suitable for.
Attribute	dietTypeSubcode	string	0..1	Indicates a set of agreements or a certificate name that guarantees the product is permitted in a particular diet.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association	dietCertification	CertificationInformation	0..1	A certification associated with a specific diet.

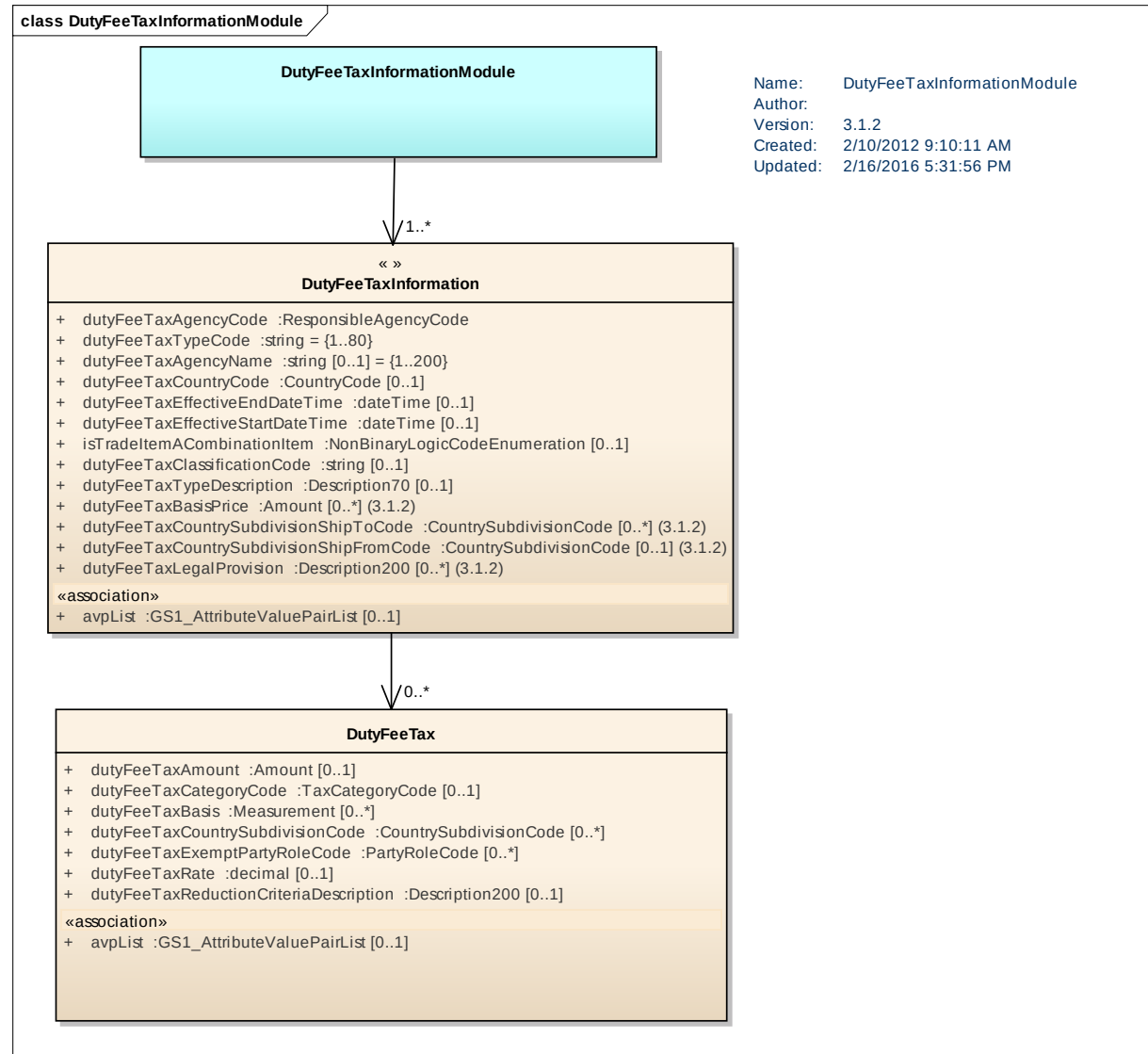
5.20. Durable Goods Characteristics Module



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
DurableGoodsChara cteristicsModule		DurableGoodsChara cteristics		A module containing attributes applicable to a broad range of durable goods.
Association		DurableGoodsChara cteristics	0..1	Attributes applicable to a broad range of durable goods.
DurableGoodsChara cteristics				Attributes applicable to a broad range of durable goods.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	isAssemblyRequired	Boolean	0..1	Indicates that the Items in the package need to be assembled for use.
Attribute	isTradeItemReconditi oned	NonBinaryLogicEnu meration	0..1	An indicator whether or not this item is a remanufactured (or rebuilt) or reconditioned part.
Attribute	tradeItemFinishDescr iption	Description	0..1	An attribute which defines the outer surface/appearance of the product.
Attribute	tradeItemOperatingE nvironment	String	0..*	The physical area(s) in which the manufacturer has designed the unit to be operated or installed for example underground, underwater, inside, outside etc.

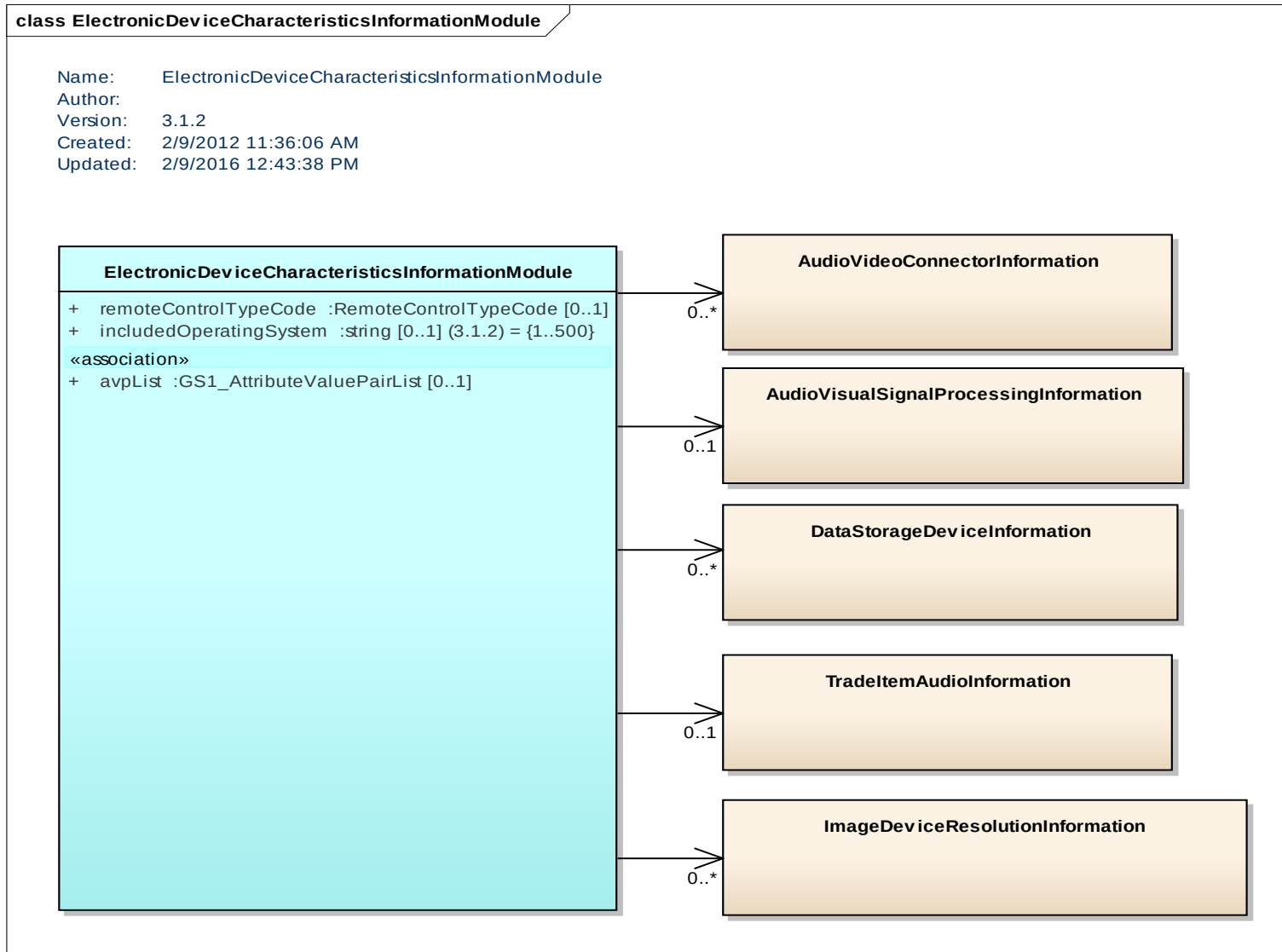
5.21. Duty Fee Tax Information Module

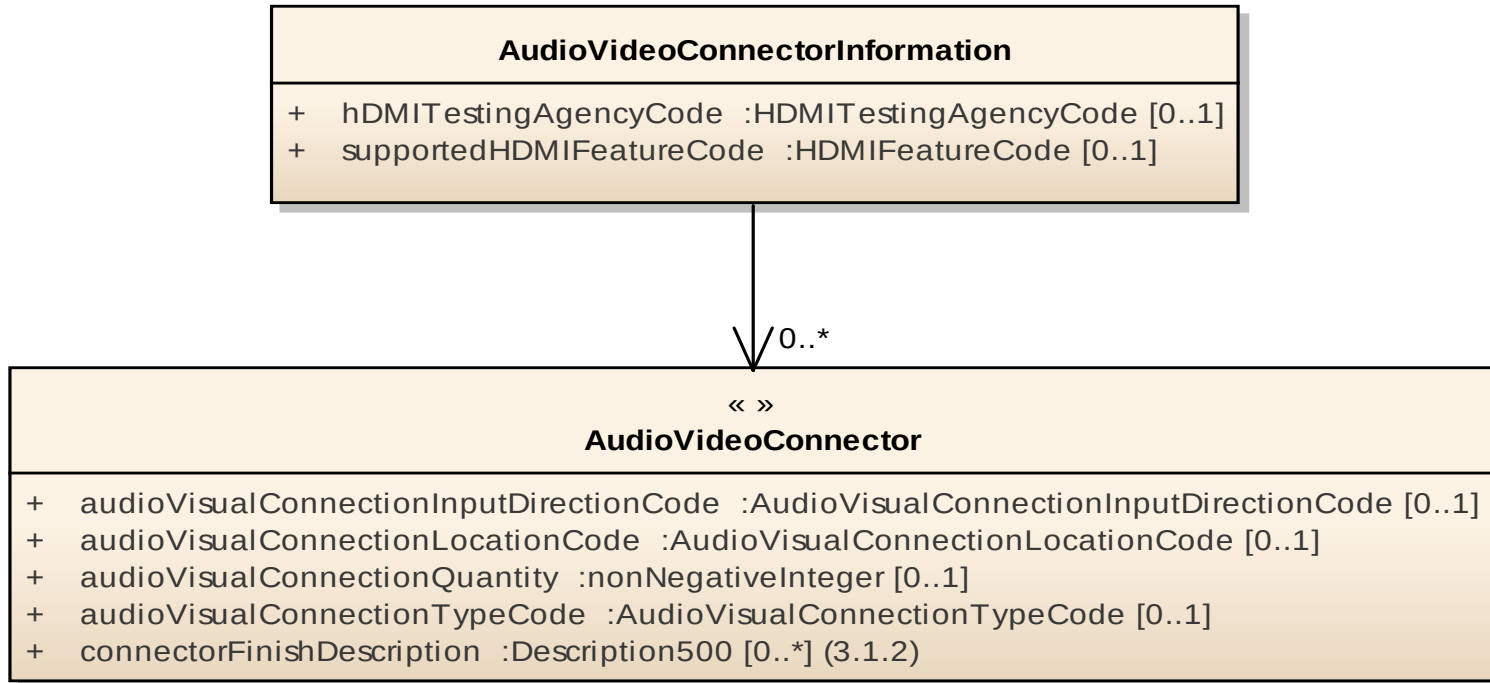
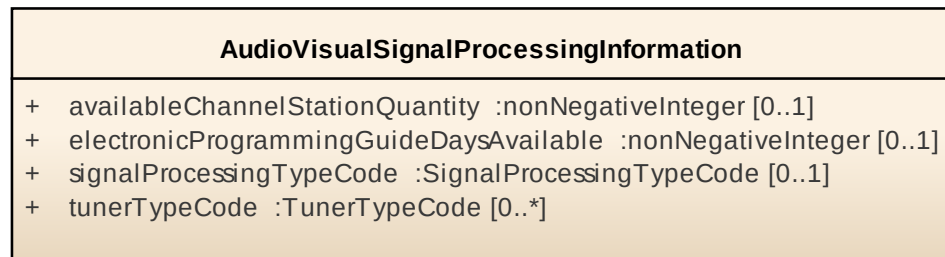


content	Attribute / role	datatype /secondary class	multipl icity	definition
DutyFeeTax				Details on a duty, fee or tax which may be applicable to a trade item including applicability, rate and amount.
Attribute	dutyFeeTaxAmount	Amount	0..1	The current tax or duty or fee amount applicable to the trade item.
Attribute	dutyFeeTaxCategoryCode	TaxCategoryCode	0..1	Depicts the applicability of the tax rate or amount for a trade item, for example, zero low or exempt.
Attribute	dutyFeeTaxBasis	Measurement	0..*	This is defined as a taxation basis for a corresponding levying type and class, for example, for a steel tax on an item with a screw cap weighing "3" grams the tax basis would be 3 grams.
Attribute	dutyFeeTaxCountrySubdivisionCode	CountrySubdivisionCode	0..*	The political subdivision (e.g. province or state) where a specific tax or tax rate/value are applicable.
Attribute	dutyFeeTaxExemptPartyRoleCode	PartyRoleCode	0..*	The party role (e.g. Consumer) that is exempt from a specific tax duty or fee.
Attribute	dutyFeeTaxRate	decimal	0..1	The current tax or duty rate percentage applicable to the trade item.
Attribute	dutyFeeTaxReductionCriteriaDescription	Description200	0..1	The conditions under which a supplier is entitled to a particular tax reduction.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
DutyFeeTaxInformation				A duty, fee or tax which may be applicable to a trade item.
Association		DutyFeeTax	0..*	Contains information on the applicability and or rate/value for a specific duty fee or tax.
Attribute	dutyFeeTaxAgencyCode	ResponsibleAgencyCode	1..1	Identifies the agency responsible for the tax code list
Attribute	dutyFeeTaxTypeCode	string	1..1	Identification of the type of duty or tax or fee applicable to the trade item. This will vary by target market.
Attribute	dutyFeeTaxAgencyName	string	0..1	The name of an agency responsible for the collection of this duty
Attribute	dutyFeeTaxBasisPrice	Amount	0..*	The price that is determined a trade item should be set to by legal means within a market. This price is the basis to which the tax is set to. Some trade item prices are dictated by law in some markets.

content	Attribute / role	datatype /secondary class	multiplicity	definition
Attribute	dutyFeeTaxCountryCode	CountryCode	0..1	The country that a duty, fee or tax may be applicable to for a trade item.
attribute	dutyFeeTaxCountrySubdivisionShipFromCode	CountrySubdivisionCode	0..1	The country subdivision the item is being shipped from in which the tax basis is made.
attribute	dutyFeeTaxCountrySubdivisionShipToCode	CountrySubdivisionCode	0..*	The Country subdivision the item is being shipped to in which the tax basis is made.
Attribute	dutyFeeTaxClassificationCode	string	0..1	A code specifying the broad category of duty, fee or tax, for example, energy, waste, environment.
Attribute	dutyFeeTaxEffectiveEndTime	dateTime	0..1	The effective date on which the tax, fee or duty must end being collected.
Attribute	dutyFeeTaxEffectiveStartTime	dateTime	0..1	The effective date on which the tax, fee or duty must start being collected.
attribute	dutyFeeTaxLegalProvision	Description200	0..*	The associated legal tax law that the tax information is based on. An example in Brazil: Inciso I, Art. 34, Anexo II, RICMS-SP.
Attribute	dutyFeeTaxTypeDescription	Description70	0..1	A description of tax type, for example, "Taxes sur les supports audio".
Attribute	isTradeItemACombinationItem	NonBinaryLogicEnumeration	0..1	An indicator whether a product assigned with one GTIN contains components which could have different tax rates, for example, chocolate eggs with toys would be chocolate 7% and toy 19%.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
DutyFeeTaxInformationModule				A module containing information on a duty, fee or tax which may be applicable to a trade item.
Association		DutyFeeTaxInformation	1..*	A duty, fee or tax which may be applicable to a trade item.

5.22. Electronic Device Characteristics Information Module



class AudioVideoConnectorInformation**class AudioVisualSignalProcessingInformation**

class DataStorageDeviceInformation**DataStorageDeviceInformation**

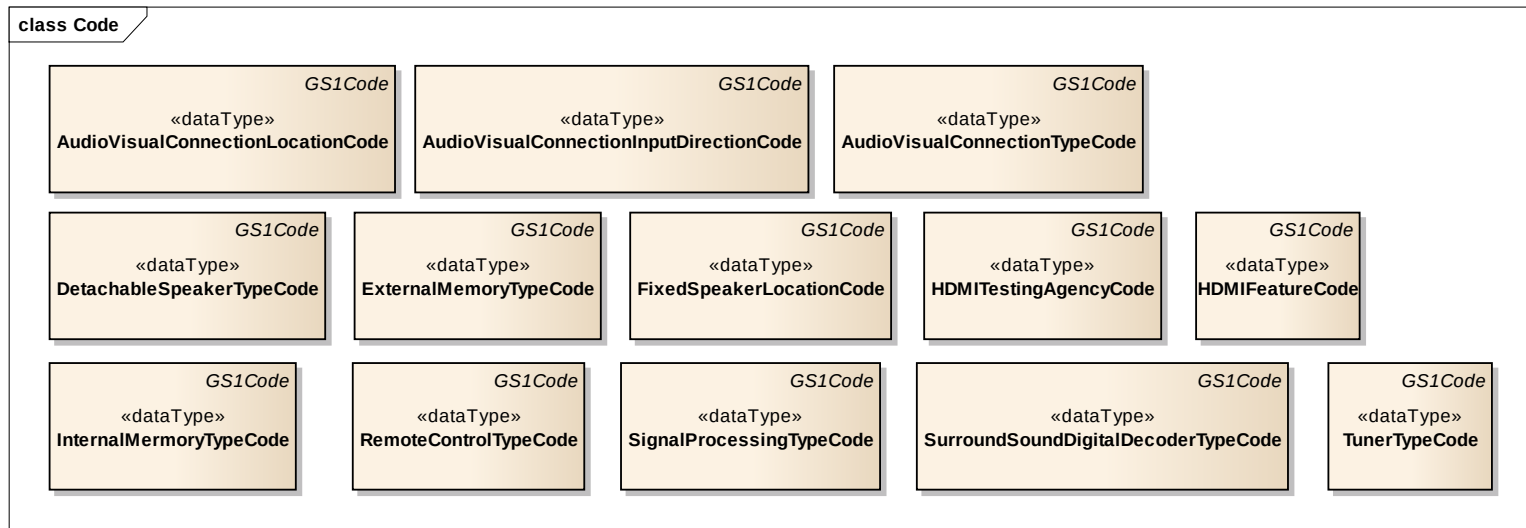
- + externalMemoryTypeCode :ExternalMemoryTypeCode [0..*]
- + internalMemoryTypeCode :InternalMemoryTypeCode [0..1]

class ImageDeviceResolutionInformation**ImageDeviceResolutionInformation**

- + maximumResolution :Measurement [0..*] (3.1.2)
- + resolutionTypeCode :ResolutionTypeCode [0..1] (3.1.2)

class TradeItemAudioInformation**TradeItemAudioInformation**

- + detachableSpeakerTypeCode :DetachableSpeakerTypeCode [0..1]
- + fixedSpeakerLocationCode :FixedSpeakerLocationCode [0..1]
- + surroundSoundDigitalDecoderTypeCode :SurroundSoundDigitalDecoderTypeCode [0..*]
- + totalAudioPowerOutput :Measurement [0..1]
- + microphoneTypeCode :MicrophoneTypeCode [0..1] (3.1.2)



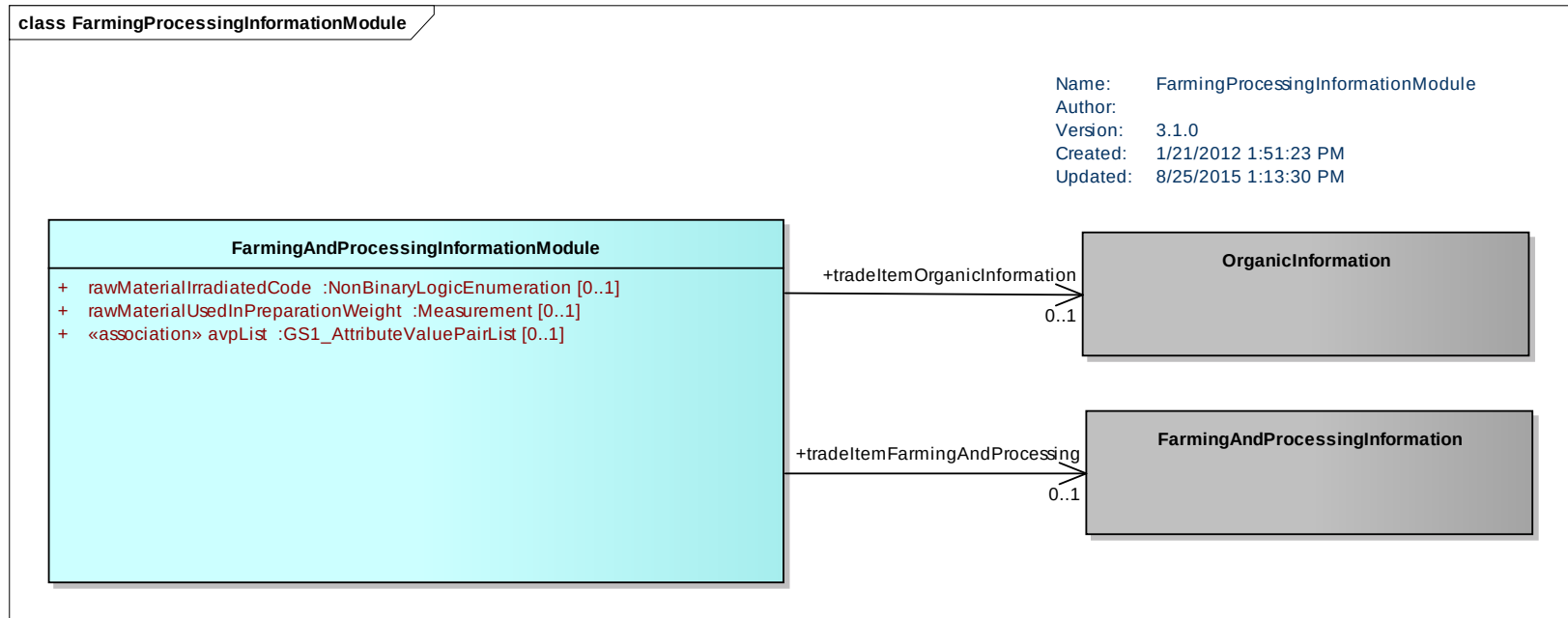
Content	Attribute / Role	Datatype /Secondary class	Multi plici ty	Definition
AudioVideoConnectorInfor mation				Audio Video Connector information for a trade item.
Association		AudioVideoConnector	0..*	Audio Video Connector information for a trade item.
Attribute	hDMITestingAgencyC ode	HDMITestingAgencyCode	0..1	The testing agency that has certified all of the product's HDMI inputs or outputs as a code. HDMI/HDPC interoperability is tested either by SimplayHD or another Authorized Testing Centre with the 1.2a specification. The High-Definition multimedia Interface (HDMI) is a compact audio/video connector interface for transmitting uncompressed digital streams. High-bandwidth Digital Content Protection (HDCP) is a form of digital copy protection.
Attribute	supportedHDMIFeatur eCode	HDMIFeatureCode	0..1	The type of features that are supported by the High-Definition multimedia Interface. The High-Definition Multimedia Interface (HDMI) is a compact audio/video connector interface for transmitting uncompressed digital streams.

Content	Attribute / Role	Datatype /Secondary class	Multi plici ty	Definition
AudioVideoConnector				Audio Video Connector information for a trade item.
Attribute	audioVisualConnectio nInputDirectionCode	AudioVisualConnectionInp utDirectionCode	0..1	The directions of connections (input, output) that are available expressed as a code value.
Attribute	audioVisualConnectio nLocationCode	AudioVisualConnectionLoc ationCode	0..1	The location on the unit of any audio visual connector for example top.
Attribute	audioVisualConnectio nQuantity	nonNegativeInteger	0..1	The number of audio visual connections available on the unit expressed as a code.
Attribute	audioVisualConnectio nTypeCode	AudioVisualConnectionTyp eCode	0..1	The types of Standard or Basic Connection Types that are available expressed as a code.
Attribute	connectorFinishDescri ption	Description500	0..*	The plating used on the electrical mating surfaces of connectors.
AudioVisualSignalProcess ingInformation				Information on signal processing for a trade item. Signal processing is the ability to perform useful operations on signals.
Attribute	availableChannelStati onQuantity	nonNegativeInteger	0..1	The number of channels available on the unit expressed as an integer.
Attribute	electronicProgrammin gGuideDaysAvailable	nonNegativeInteger	0..1	The number of days available in an electronic programming guide expressed as an integer. The electronic programming guide feature is the capability for the users to interact with an intelligent guide.
Attribute	signalProcessingType Code	SignalProcessingTypeCod e	0..1	The type of processing capability of the television to receive and process enhanced signal types expressed as a code for example Analogue.
Attribute	tunerTypeCode	TunerTypeCode	0..*	A tuner type is the technology used for the built-in receiver expressed as a code for example HD (high definition). A tuner receives broadcasts and converts them into signals.
DataStorageDeviceInform ation				Information on included data storage devices associated with the trade item.
Attribute	externalMemoryTypeC ode	ExternalMemoryTypeCode	0..*	The components, devices, and recording media that retain digital data that is external to the device expressed as a code.

Content	Attribute / Role	Datatype /Secondary class	Multi plici ty	Definition
Attribute	internalMemoryTypeCode	InternalMemoryTypeCode	0..1	The components, devices, and recording media that retain digital data that is internal to the device expressed as a code.
ElectronicDeviceCharacteristicsInformationModule				A module containing technical and other product characteristics for electronic items.
Association		AudioVisualSignalProcessingInformation	0..1	Signal processing information for a trade item.
Association		TradeItemAudioInformation	0..1	Information on audio functionality of a Trade Item.
Association		DataStorageDeviceInformation	0..*	Information on included data storage devices associated with the trade item.
Association		AudioVideoConnectorInformation	0..*	Audio Video Connector Information for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	includedOperatingSystem	String	0..1	The operating system loaded on the trade item, device or upon which the software is designed to operate.
Attribute	remoteControlTypeCode	RemoteControlTypeCode	0..1	The type of remote control functionality available with a unit expressed as a code.
ImageDeviceResolutionInformation				Details on the resolution for an image device such as a camera.
attribute	maximumResolution	Measurement	0..*	The maximum resolution of the image device, measured in dots/pixels per some measure.
attribute	resolutionTypeCode	ResolutionTypeCode	0..1	The qualifier describing the resolution of the device expressed as a code for example IMAGE.
TradeItemAudioInformation				Information on audio functionality of a Trade Item.
Attribute	detachableSpeakerTypeCode	DetachableSpeakerTypeCode	0..1	The type of detachable speakers available on the unit for example wireless.
Attribute	fixedSpeakerLocationCode	FixedSpeakerLocationCode	0..1	The location of speakers that cannot be detached available on the unit.

Content	Attribute / Role	Datatype /Secondary class	Multi plici ty	Definition
Attribute	microphoneTypeCode	microphoneTypeCode	0..1	The type of microphone the trade item contains expressed as a code for example WIRELESS.
Attribute	surroundSoundDigital DecoderTypeCode	SurroundSoundDigitalDeco derTypeCode	0..*	The type of feature capable of decoding and playback of particular sound systems expressed as a code for example DTS HD.
Attribute	totalAudioPowerOutput	Measurement	0..1	The total audio power output of the product expressed in Watts.

5.23. Farming And Processing Information Module

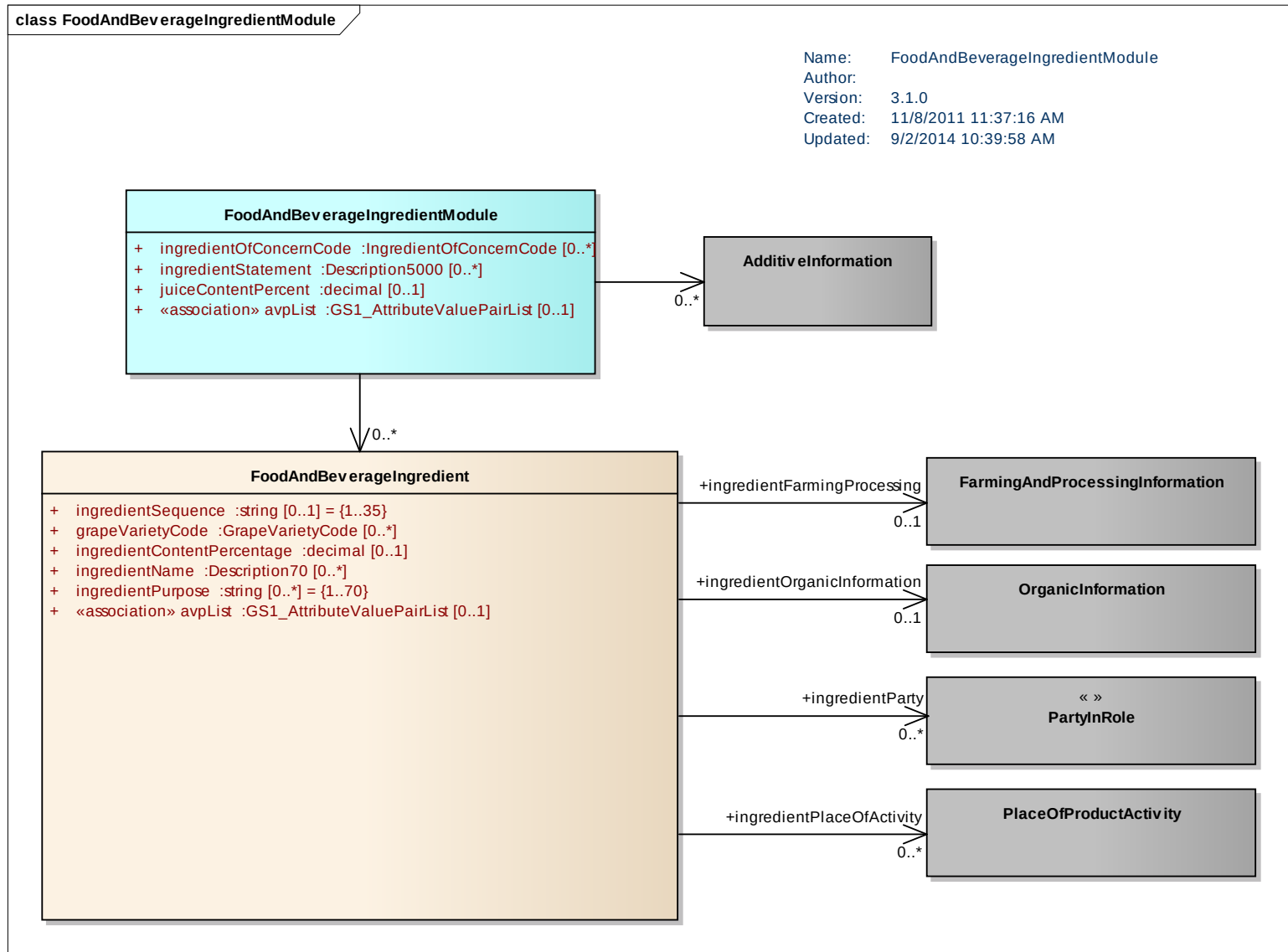


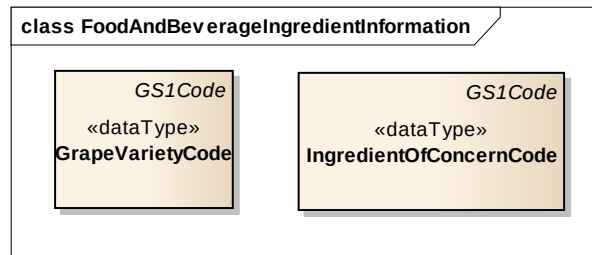
Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multiplicity	definition
FarmingProcessingInformationModule				Information on any farming or processing performed on and agricultural trade item.
Association	tradeItemOrganicInformation	OrganicInformation	0..1	Details on the trade item regarding the extent of organic production.
Association	tradeItemFarmingAndProcessing	FarmingAndProcessingInformation	0..1	Information on farming and processing for a trade item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	rawMaterialIrradiatedCode	NonBinaryLogicEnumeration	0..1	Indicates if radiation has been applied to a trade item's raw material.
Attribute	rawMaterialUsedInPreparationWeight	Measurement	0..1	The weight of the raw materials (meat) used to produce the finished food product. The weight of the raw materials (for example fat) can differ from the weight of the ingredient in the finished product. In some countries there are legal stipulations that the weight of the raw material used must be indicated if a product is produced using more than 100% of the finished product.

5.24. Food And Beverage Ingredient Module

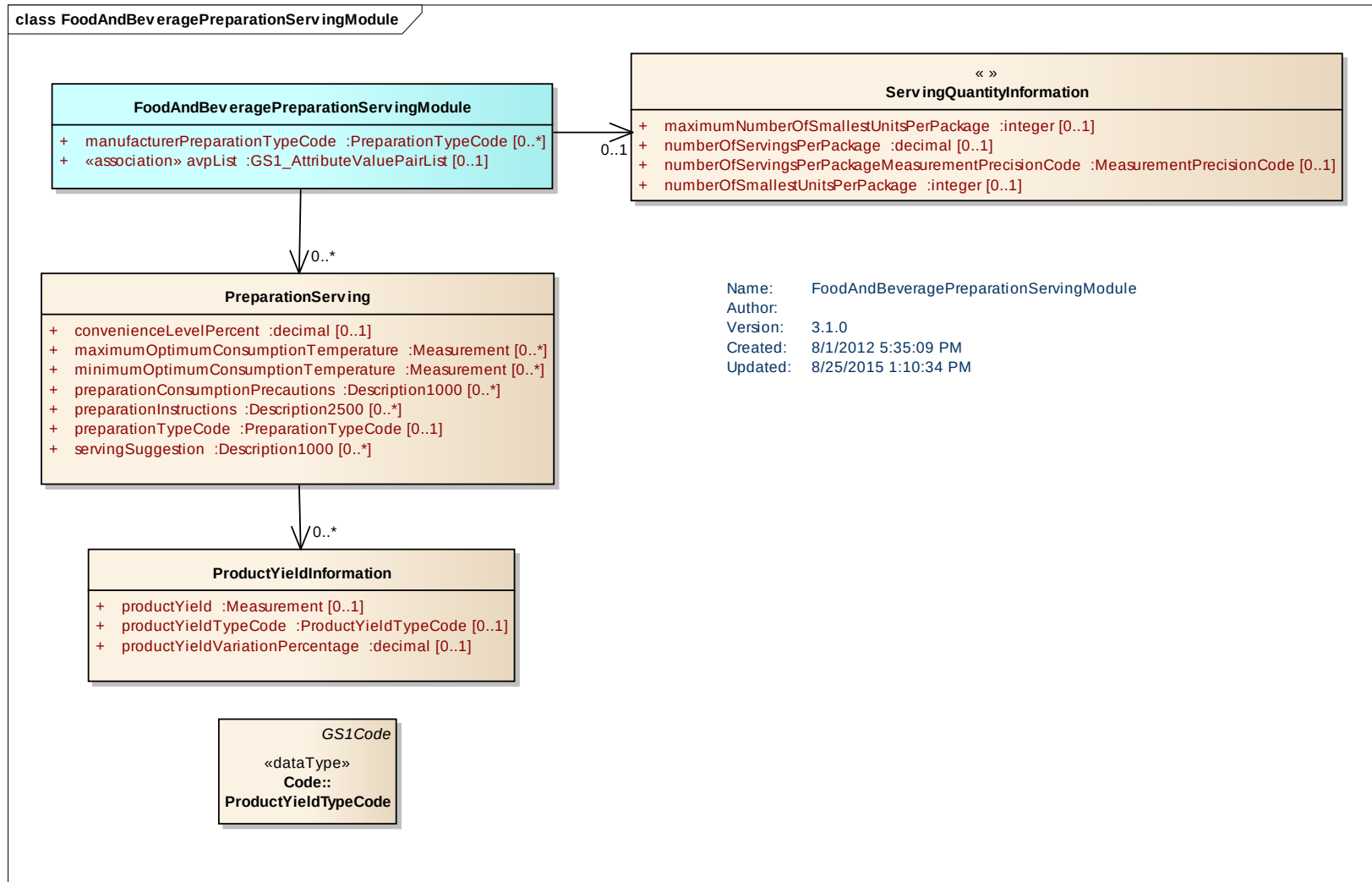




Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
FoodAndBeverageIn gredient				Information on the constituent ingredient make up of the product split out per ingredient.
Association	ingredientParty	PartyInRole	0..*	Party and party role information that relates to an ingredient to describe growers, breeders, etc.
Association	ingredientFarmingAn dProcessing	FarmingAndProcessi ng	0..1	Details on any methods and techniques used to grow or produce the ingredient.
Association	ingredientOrganicInfo rmation	OrganicInformation	0..1	Information on the organic nature of an ingredient.
Association	ingredientPlaceOfActi vity	PlaceOfProductActivi ty	0..*	Information on the activity (e.g. bottling) taken place for an ingredient as well as the associated geographic area.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.
Attribute	ingredientSequence	string	0..1	Incremental value (01, 02, 03...) indicating the ingredient order by content percentage of the product. (major ingredient = 01, second ingredient =01.01) etc.
Attribute	grapeVarietyCode	GrapeVarietyCode	0..*	The vine variety used for the production of this wine for example Merlot expressed as a code.
Attribute	ingredientContentPer centage	decimal	0..1	Indication of the percentage of the ingredient contained in the product.
Attribute	ingredientName	Description70	0..*	Text field indicating one ingredient or ingredient group (according to regulations of the target market). Ingredients include any additives (colourings, preservatives, e-numbers, etc) that are encompassed.

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
Attribute	ingredientPurpose	string	0..*	A description of the primary purpose that an ingredient serves for example a colouring in the case of annatto in a cheese rind.
FoodAndBeverageIn gredientInformation Module				Information on the constituent ingredient make up of the product.
Association		FoodAndBeverageIn gredient	0..*	Ingredient details for a food and beverage item.
Association		AdditiveInformation	0..*	Information on presence or absence of additives or genetic modifications contained in the trade item.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.
Attribute	ingredientOfConcern Code	IngredientOfConcern Code	0..*	Indicates a claim to an ingredient, considered to be a concern for regulatory or other reasons, and which is "contained" within the trade item but may not need to specify the amount whether approximate or an accurate measurement be given.
Attribute	ingredientStatement	Description5000	0..*	Information on the constituent ingredient make up of the product specified as one string.
Attribute	juiceContentPercent	decimal	0..1	The fruit juice content of the trade item expressed as a percentage.

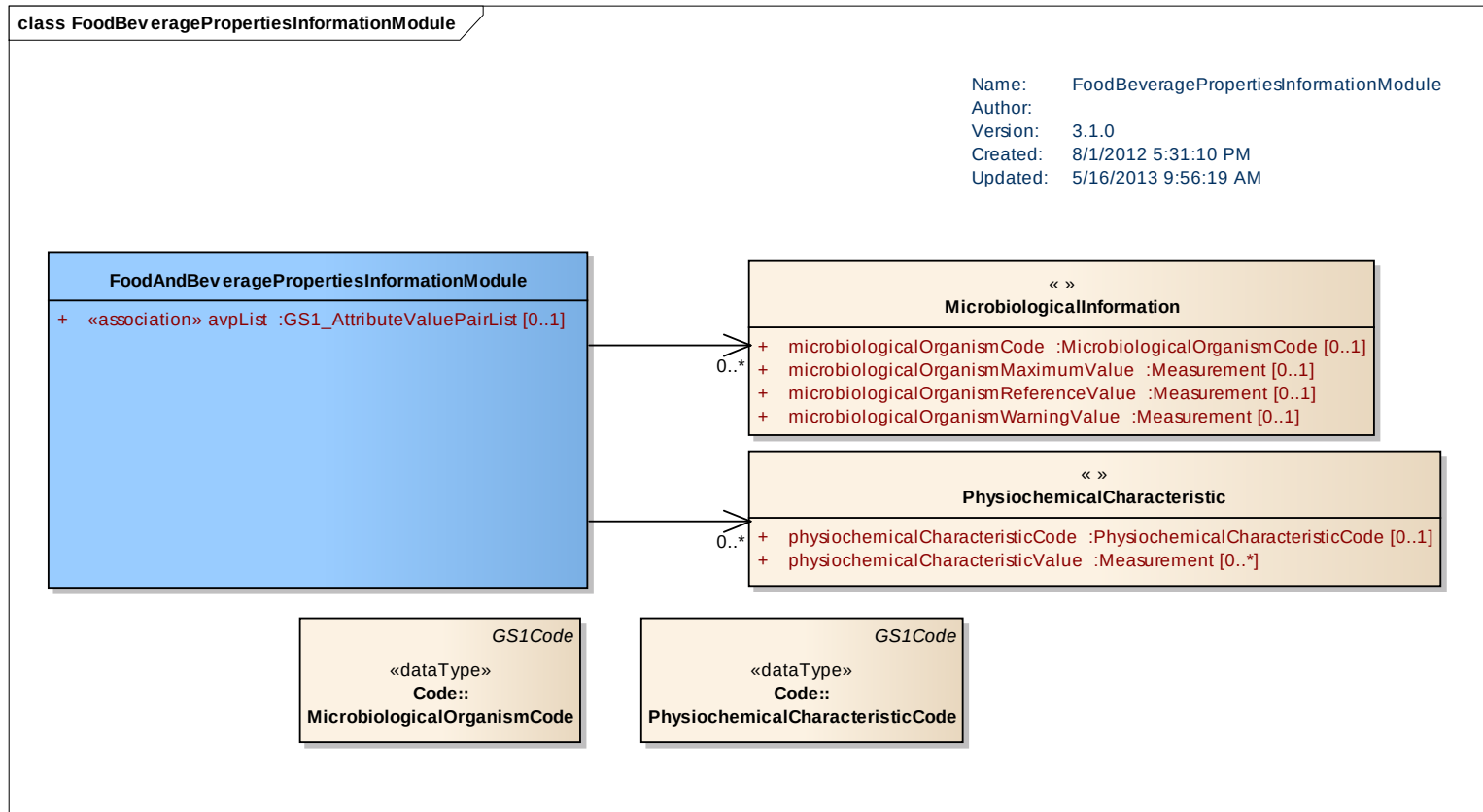
5.25. Food and Beverage Preparation Serving Module



content	attribute / role	datatype /secondary class	multipli city	definition
FoodAndBeverage PreparationServing Module				Information on way the product can be prepared or served.
Attribute	manufacturerPreparationTypeCode	PreparationTypeCode	0..*	An indication of the preparation methods that a manufacturer has used on the product or a component of the product during the manufacturing process.
Association		PreparationServing	0..*	Preparation and serving information for a food and beverage item.
Association		ServingQuantityInformation	0..1	Information on the number of servings and units contained in the package.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
PreparationServing				Information on way the product can be prepared or served..
Association		ProductYieldInformation	0..*	Information on the yield of a product.
Attribute	convenienceLevelPercent	decimal	0..1	An indication of the ease of preparation for semi-prepared products. The convenience level indicates the level of preparation in percentage required to prepare and helps the consumer to assess how long it will take to prepare the meal.
Attribute	maximumOptimumConsumptionTemperature	Measurement	0..*	The upper limit drinking temperature of the optimum range of the drinking temperature. The optimum range of the drinking temperature is a recommendation and is based on the experience of the individual producer.
Attribute	minimumOptimumConsumptionTemperature	Measurement	0..*	The lower limit drinking temperature of the optimum range of the drinking temperature. The optimum range of the drinking temperature is a recommendation and is based on the experience of the individual producer.
Attribute	preparationConsumptionPrecautions	Description1000	0..*	Specifies additional precautions to be taken before preparation or consumption of the product.
Attribute	preparationInstructions	Description2500	0..*	Textual instruction on how to prepare the product before serving.
Attribute	preparationTypeCode	PreparationTypeCode	0..1	A code specifying the technique used to make the product ready for consumption. For example: baking, boiling.
Attribute	servingSuggestion	Description1000	0..*	Free text field for serving suggestion.
ProductYieldInformation				Information on the yield of a product.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	productYield	Measurement	0..1	Product quantity after preparation.
Attribute	productYieldTypeCode	ProductYieldTypeCode	0..1	Code indicating the type of yield measurement. Examples: After dilution, Drained weight, After cooking, etc.
Attribute	productYieldVariationPercentage	decimal	0..1	Indication of range in percent of the given cooking / roasting loss. Percentage that the actual weight of the trade item differs upward or downward from the average or estimated product yield.
ServingQuantityInformation				Information on the number of servings and units contained in the package.
Attribute	maximumNumberOfSmallestUnitsPerPackage	integer	0..1	The maximum number of the smallest units contained in the package. This attribute is to be used in conjunction with numberOfSmallestUnitsPerPackage in order to enter a minimum and maximum value. For example for a package of meat balls where the smallest units per package could be from 56-60, the maximumNumberOfSmallestUnitsPerPackage would be 60.
Attribute	numberOfServingsPerPackage	decimal	0..1	The total number of servings contained in the package.
Attribute	numberOfServingsPerPackageMeasurementPrecisionCode	MeasurementPrecisionCode	0..1	Code indicating whether the number of servings per package is exact or approximate. One should follow local regulatory guidelines when selecting a precision.
Attribute	numberOfSmallestUnitsPerPackage	integer	0..1	The total number of smallest units contained in the package. The smallest unit cannot be further divided without breaking or slicing the product. Example: 10 pancakes.

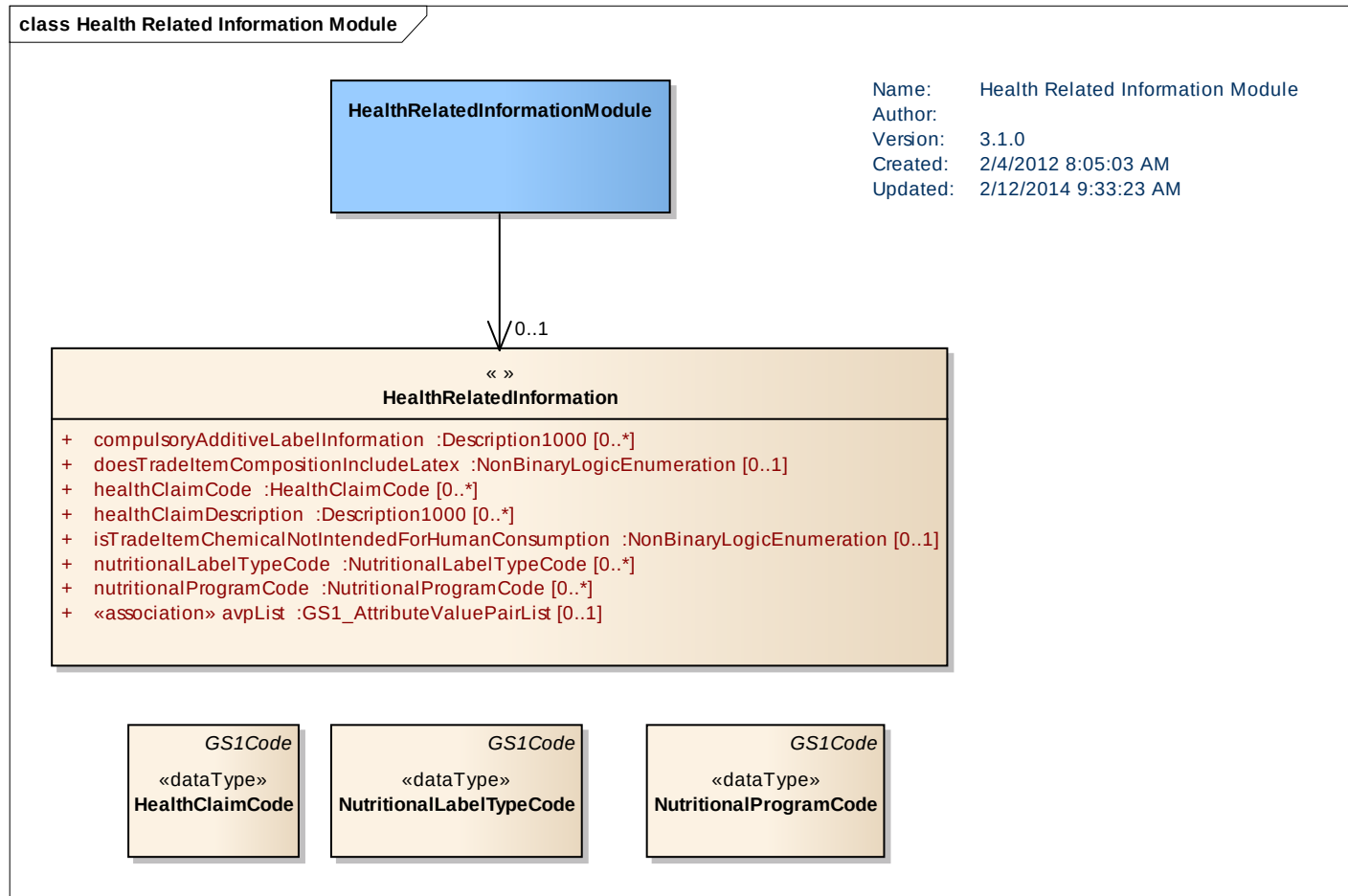
5.26. Food and Beverage Properties Information Module



content	attribute / role	datatype /secondary class	multipli city	definition
FoodAndBeveragePropertiesInformationModule				Information on physiochemical or other properties of food and beverage products.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Association		MicrobiologicalInformation	0..*	Information on the maximum allowable presence of certain micro-organisms as guaranteed by the manufactures upon receipt of the goods.
Association		PhysiochemicalCharacteristic	0..*	Information on the product's physicochemical characteristics.
MicrobiologicalInformation				Information on the maximum allowable presence of certain micro-organisms as guaranteed by the manufactures upon receipt of the goods.
Attribute	microbiologicalOrganismCode	MicrobiologicalOrganismCode	0..1	Code indicating the type of microbiological organism.
Attribute	microbiologicalOrganismMaximumValue	Measurement,	0..1	Maximum allowable Colony Forming Units (CFU) of the microbiological organism per weight or volume.
Attribute	microbiologicalOrganismReferenceValue	Measurement	0..1	Reference values give an indication of which product specific ranges of micro organisms are to be expected and which micro organism contents in the appropriate food products are acceptable due to hygiene rules. Per definition this value reflects a microbiological limit which in a 2–class plan, separates good quality from defective quality or in a 3–class plan, separates good quality from marginally acceptable quality. With regard to the audit of the production processes exceeding the microbiological reference limit means, it indicates there are leak points in the production process and the hygienic situation needs to be increased.
Attribute	microbiologicalOrganismWarningValue	Measurement	0..1	A microbiological limit which, in a 3–class plan, separates marginally acceptable quality from defective quality. Exceeding the limits of the allowed content of micro organisms defined as warning values indicating there is a poor quality of the hygiene standard in the food production. This would probably lead to health hazards.
PhysiochemicalCharacteristic				Information on the product's physicochemical characteristics.

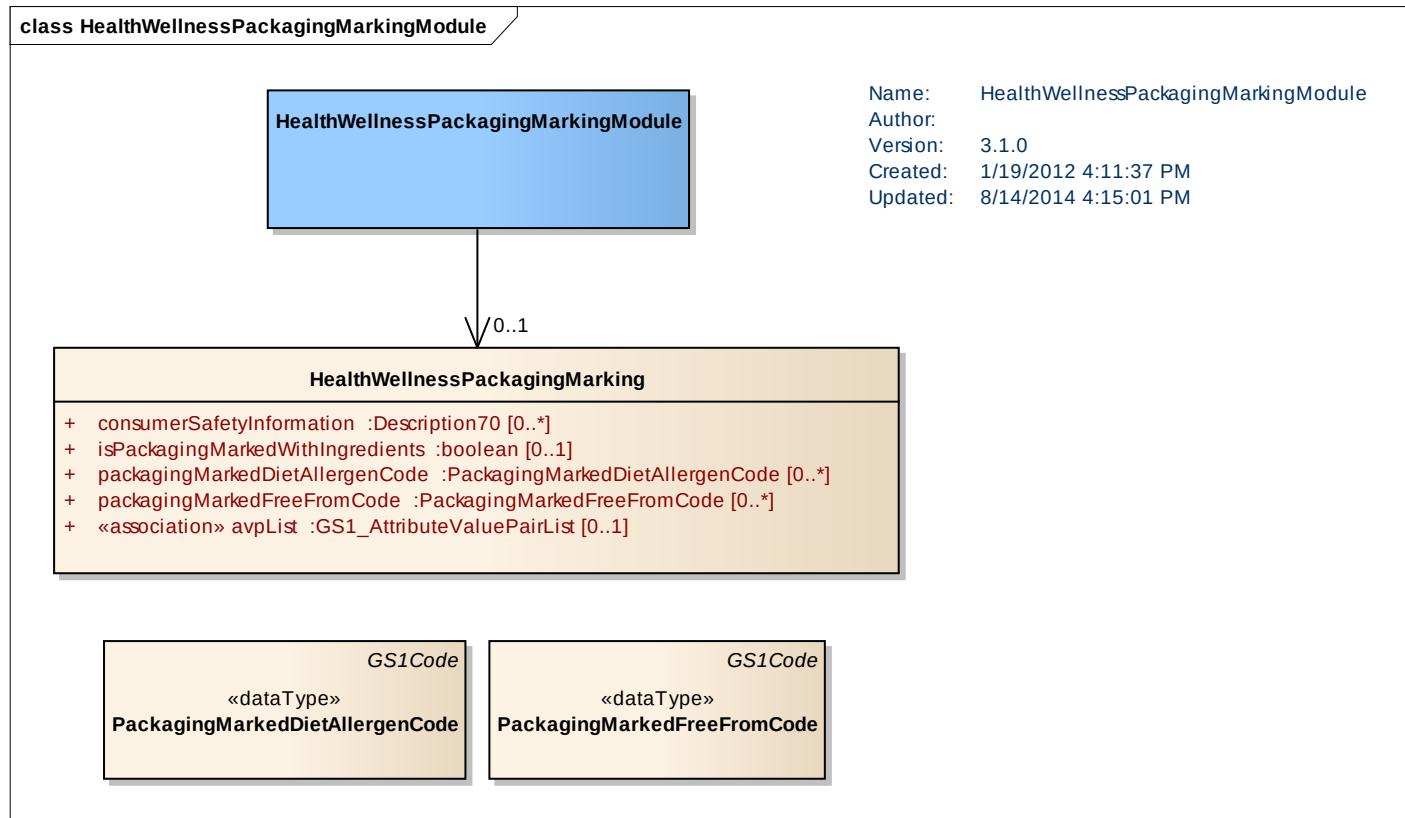
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	physiochemicalCharac teristicCode	PhysiochemicalCh aracteristicCode	0..1	Code indicating the type of physiochemical characteristic.
Attribute	physiochemicalCharac teristicValue	Measurement	0..*	Measurement value of the physicochemical characteristic.

5.27. Health Related Information Module



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
HealthRelatedInform ationModule				A module containing marketing or regulatory information specific to health or safety.
Association		HealthRelatedInfor mation	0..1	A module containing marketing or regulatory information specific to health or safety.
HealthRelatedInform ation				Marketing or regulatory information specific to health or safety.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	compulsoryAdditiveLab elInformation	Description1000	0..*	A description of any compulsory label information on the product for the serving counter for example the German additives regulation (ZzulV), for products such as meats and sausages, meat products, bread and bread products.
Attribute	doesTradeItemComposi tionIncludeLatex	NonBinaryLogicEn umeration	0..1	Identifies if any of the trade item's components or pieces contain latex.
Attribute	healthClaimCode	HealthClaimCode	0..*	Any health claims according to regulations of the target market.
Attribute	healthClaimDescription	Description1000	0..*	A description of health claims according to regulations of the target market.
Attribute	isTradeItemChemicalN otIntendedForHumanC onsumption	NonBinaryLogicEn umeration	0..1	Indicates that the trade item is or contains a Liquid, Gel, Paste, Powder, or Flammable solid not intended for human consumption (ingested).
Attribute	nutritionalLabelTypeCo de	NutritionalLabelTy peCode	0..*	Code indicating that the trade item is eligible for certain nutritional labelling programs according to a specific regulation
Attribute	nutritionalProgramCode	NutritionalProgram Code	0..*	Programs designed to encourage people to eat a certain way

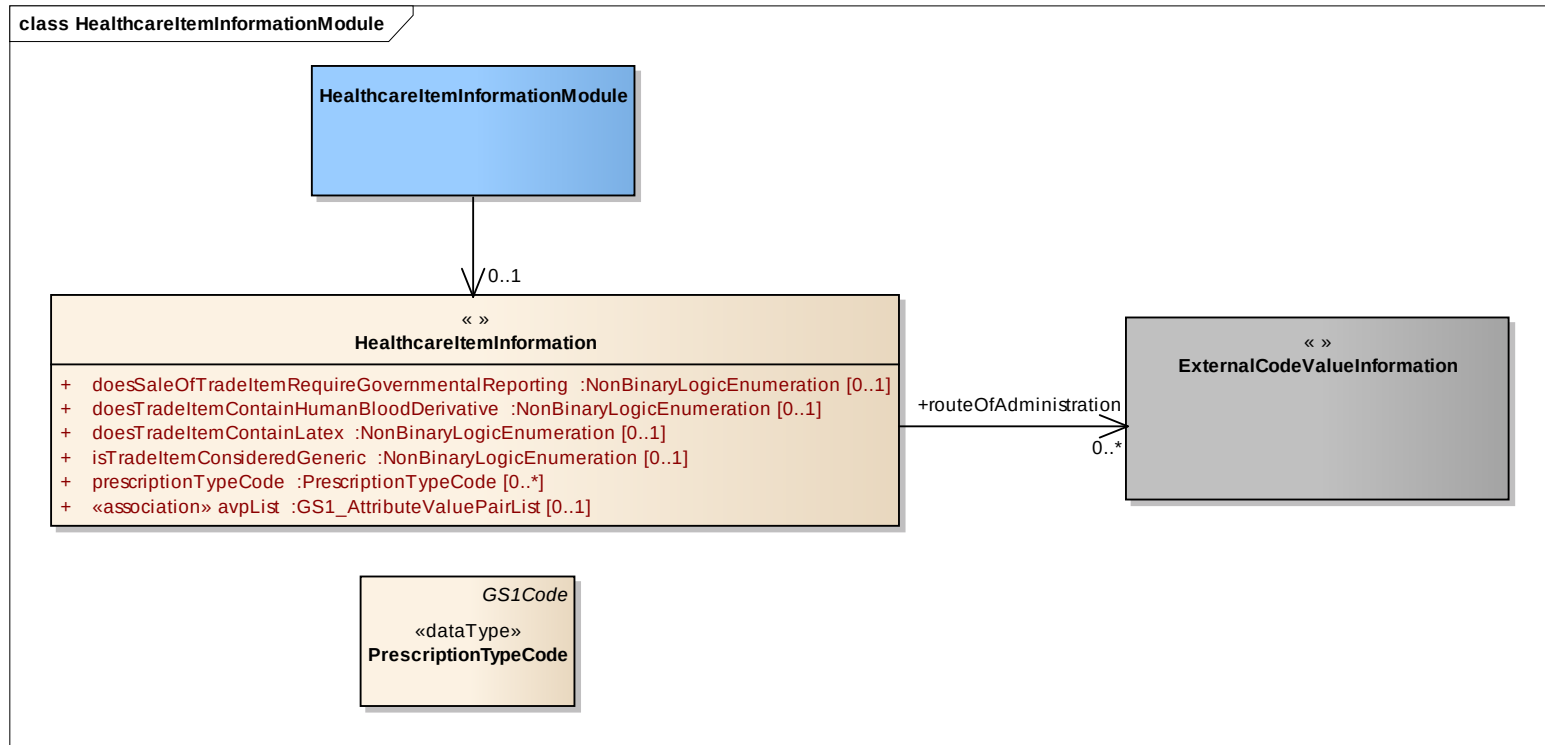
5.28. Health Wellness Packaging Marking Module



content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
HealthWellnessPack agingMarkingModule				Indicates any marking on the packaging of a trade item, including labelling of information related to allergens, suitable diet, safety and ingredients.
Association		HealthWellnessPack agingMarking	0..1	Indicates any marking on the packaging of a trade item, including labelling of information related to allergens, suitable diet, safety and ingredients.

content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
HealthWellnessPack agingMarking				Indicates any marking on the packaging of a trade item, including labelling of information related to allergens, suitable diet, safety and ingredients.
Association	avpList	GS1_AttributeValueP airList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	consumerSafetyInfor mation	Description70	0..*	Information on consumer safety regarding the trade item.
Attribute	isPackagingMarkedW ithIngredients	Boolean	0..1	Trade item packaging contains information pertaining to its ingredients. trade item ingredients are required to be shown on the trade item (normally at base trade item level). This is a yes/no (Boolean) where yes equals marked with ingredients.
Attribute	packagingMarkedDiet AllergenCode	PackagingMarkedDie tAllergenCode	0..*	Indication of which dietary or allergen marks that are on the package.
Attribute	packagingMarkedFre eFromCode	PackagingMarkedFre eFromCode	0..*	Indication of the food ingredients that the package is marked free from.

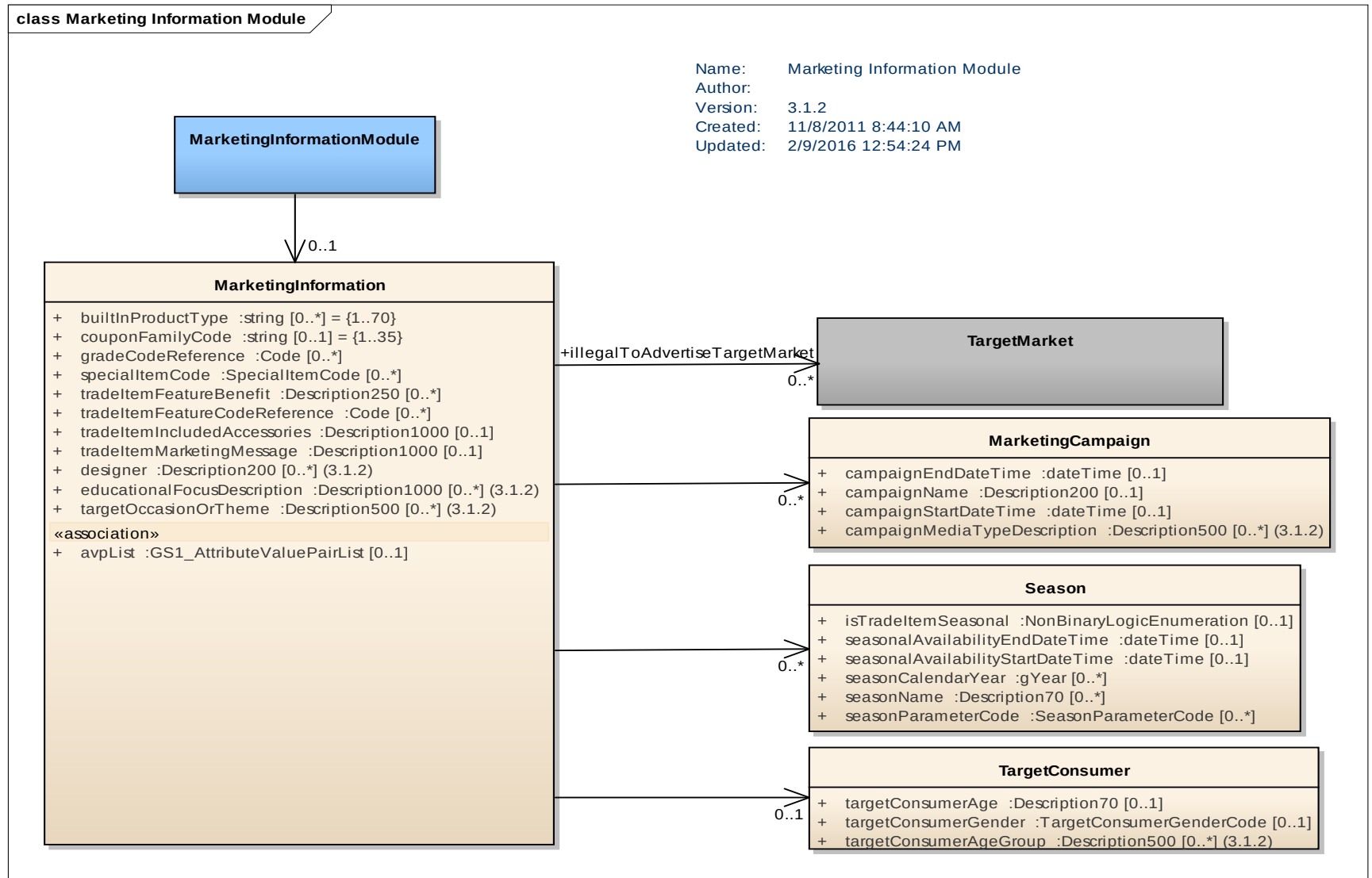
5.29. Healthcare Item Information Module



Note: Common class (in grey) is located in the GDSN Common Library.

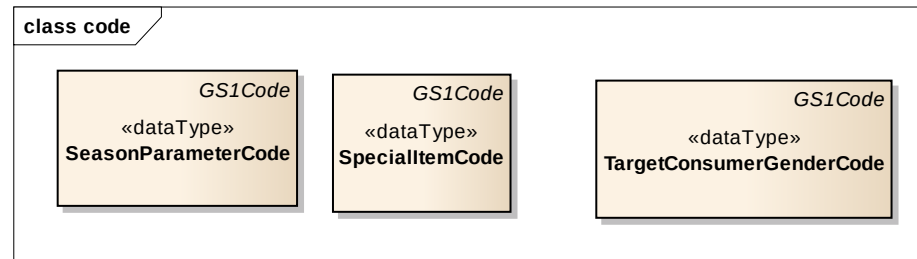
Content	Attribute / Role	Datatype /Secondary class	Multi plicit y	Definition
HealthcareItemInfor mationModule				Information relevant to all classifications of healthcare items.
Association		HealthcareItemInformat ion	0..1	Information relevant to all classifications of healthcare items.
HealthcareItemInfor mation				Information relevant to all classifications of healthcare items.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Association	routeOfAdministration	ExternalCodeValueInformation	0..*	Route of Administration expresses the method(s) of administering the product. In pharmacology and toxicology, a route of administration is the path by which a drug, fluid, or other substance is brought into contact with the body.
Attribute	doesSaleOfTradeItem RequireGovernmental Reporting	NonBinaryLogicEnumeration	0..1	Indicates whether the government requires the reporting of sale of the trade item.
Attribute	doesTradeItemContainHumanBloodDerivative	NonBinaryLogicEnumeration	0..1	The use of this attribute indicates that the trade item is a product that contains blood, blood components or blood products used in the manufacturing.
Attribute	doesTradeItemContainLatex	NonBinaryLogicEnumeration	0..1	An indication that the trade item has a positive natural rubber latex reference on the trade item's labelling.
Attribute	isTradeItemConsideredGeneric	NonBinaryLogicEnumeration	0..1	An indication that the trade item is being produced by someone other than the Brand Innovator of the product. A value of no indicates that it is not considered a "Generic Substitution" of another product.
Attribute	prescriptionTypeCode	PrescriptionTypeCode	0..*	Providing a value to this code list indicates the type of prescription that is required. The prescription type may indicate that it is a product that can only be prescribed under the direction of a specialist such as an oncologist, dentist, or other specialist.

5.30. Marketing Information Module





Note: Common class (in grey) is located in the GDSN Common Library.

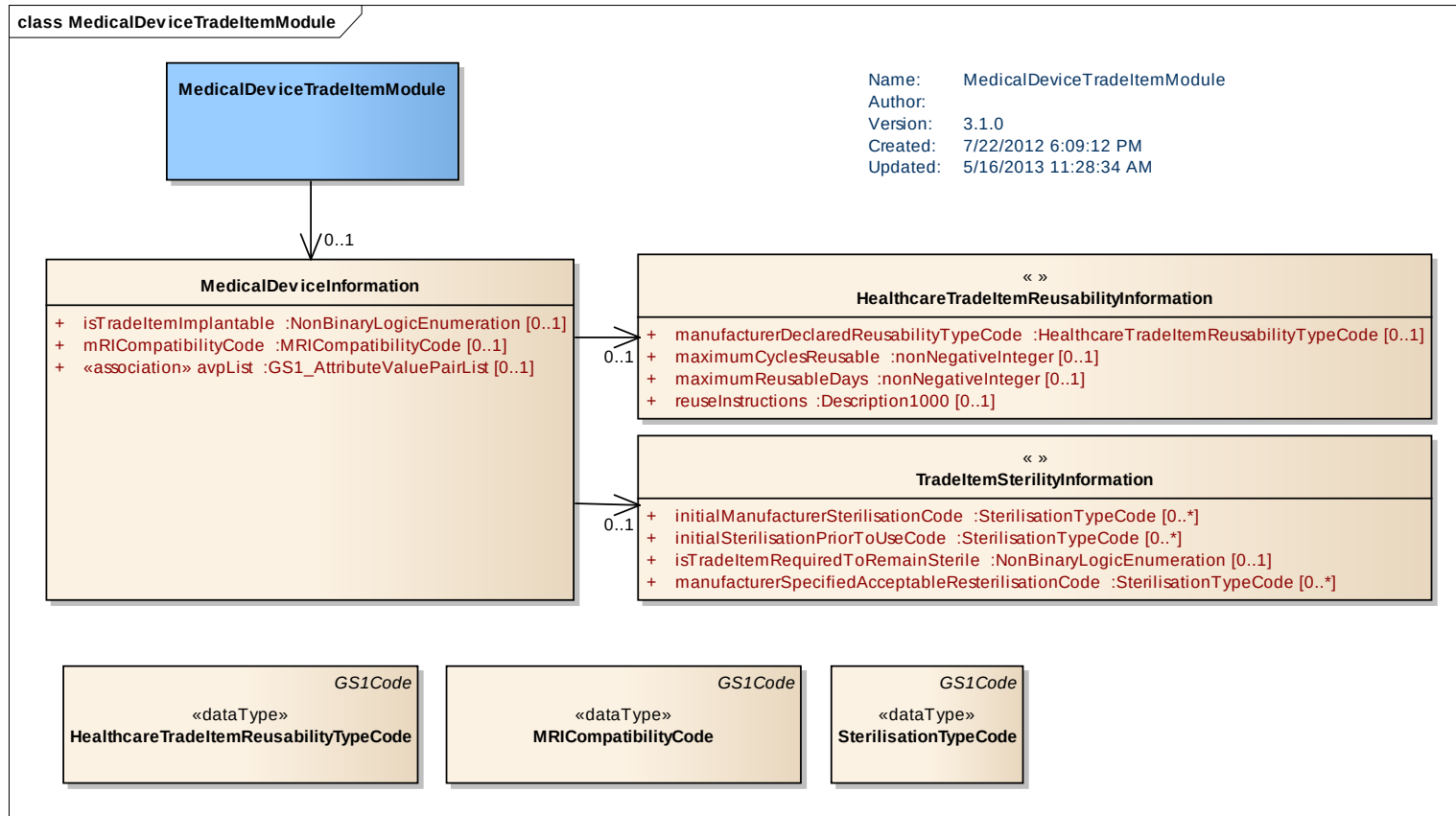


content	attribute / role	datatype /secondary class	multipl city	definition
MarketingInformat ionModule				A module containing information on a trade item meant to convey features and benefits and targeted customer.
Association		MarketingInformat ion	0..1	Information on a trade item meant to convey features and benefits and targeted customer.
MarketingCampai gn				Details on a sales or marketing campaign for a trade item.
Attribute	campaignEndDateTi me	dateTime	0..1	The date suggested by the supplier for the campaign to end. It indicates the end of a marketing campaign.
Attribute	campaignMediaType Description	Description500	0..*	Describes the type of advertising mechanism, example TV, radio, magazine, newspaper.
Attribute	campaignName	Description200	0..1	Name of the sales or marketing campaign, for which the trade item is intended. Input of user-defined text in order to assign the item to a specific marketing campaign.
Attribute	campaignStartDateTi me	dateTime	0..1	The date suggested by the supplier for the campaign to start. It indicates the beginning of a marketing campaign.
MarketingInformat ion				Information on a trade item meant to convey features and benefits.
Association		MarketingCampai gn	0..*	Details on a sales or marketing campaign for a trade item.

content	attribute / role	datatype /secondary class	multipli city	definition
Association	illegalToAdvertiseTar getMarket	TargetMarket	0..*	The target market where it is prohibited by law to advertise a trade item. An example of this is France where laxatives are illegal to advertise.
Association		Season	0..*	Information on whether or not the trade item is only offered during certain parts of the year or targeted to different seasons.
Association		TargetConsumer	0..1	Target consumer details for a trade item.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	builtInProductType	string	0..*	The type of product that the trade item is combined with for example a VCR in the case that a television is combined with a VCR.
Attribute	couponFamilyCode	string	0..1	A code assigned by the vendor to a single trade item or to families of consumer trade items that can be used by in store scanners in conjunction with a U.P.C. coupon value code for coupon value discount when the proper trade item has been purchased.
attribute	designer	Description200	0..*	The person or company that designed the product. This may or may not be the brand name as designers. Guess jeans designers were Paul and Maurice Marciano.
attribute	educationalFocusDes cription	Description1000	0..*	A description of the educational benefit the trade item is designed to provide for example: shape identification, language, motor skills, pretend play, color identification, science.
Attribute	gradeCodeReference	Code	0..*	A code indicating the degree of refinement, features, or capabilities for a trade item for example the quality grade of a ceramic tile or of a food item such as eggs.
Attribute	specialItemCode	SpecialItemCode	0..*	This element identifies specific items for promotional or special tracking purposes.
Attribute	tradeItemFeatureBen efit	Description250	0..*	Element for consumer facing market-ing content to describe the key features or benefits of the style suitable for display purposes.
attribute	targetOccasionOrThe me	Description500	0..*	The particular target time, event, theme, or holiday for the product for example Mother's Day, baby shower, birthday, etc..
Attribute	tradeItemFeatureCod eReference	Code	0..*	A code depicting a distinctive functionality offered as a special attraction to the trade item for example BUILT_IN_ALARM_CLOCK.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	tradeItemIncludedAccessories	Description1000	0..1	Any included object or device not part of the core product itself but which adds to its functionality or use.
Attribute	tradeItemMarketingMessage	Description1000	0..1	Marketing message associated to the Trade item.
Season				Information on whether or not the trade item is only offered during certain parts of the year or targeted to different seasons.
Attribute	isTradeItemSeasonal	NonBinaryLogicEnumeration	0..1	An indicator whether or not the trade item is only offered during certain parts of the year or targeted to different seasons.
Attribute	seasonalAvailabilityEndDateTime	dateTime	0..1	Indicates the end date of the trade item's seasonal availability.
Attribute	seasonalAvailabilityStartDateTime	dateTime	0..1	Indicates the start date of the trade item's seasonal availability.
Attribute	seasonCalendarYear	gYear	0..*	This element indicates the calendar year in which the trade item is seasonally available.
Attribute	seasonName	Description70	0..*	Element defines the season applicable to the item.
Attribute	seasonParameterCode	SeasonParameterCode	0..*	Indication of the season, in which the trade item is available, i.e. assignment to one of the following collection periods: spring/summer, autumn/ winter or all year around.
TargetConsumer				The type of consumer the trade item is marketed towards for example gender or age.
Attribute	targetConsumerAge	Description70	0..1	Identifies the target consumer age range for which a trade item has been designed.
Attribute	targetConsumerAgeGroup	Description500	0..*	A description of a general age group the product is designed for. This would not include the actual age ranges. For example Infant, Toddler, Child, Teen, Adult.
Attribute	targetConsumerGender	TargetConsumerGenderCode	0..1	Identifies the target consumer gender for which a product has been designed.

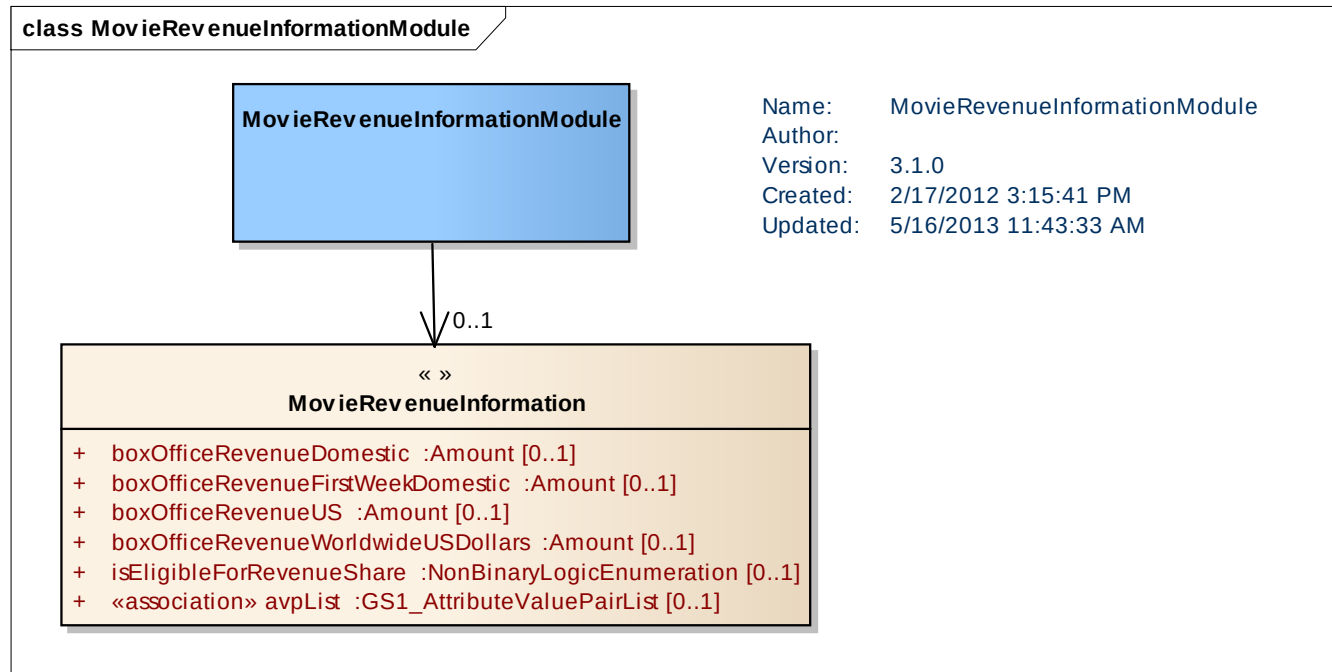
5.31. Medical Device Trade Item Module



content	attribute / role	datatype /secondary class	multipl city	definition
MedicalDeviceInfo rmentation				Information on medical device trade items.
Association		TradeItemSterilityIn formation	0..1	Information regarding sterility of Healthcare trade items.
Association		HealthCareTradeIt emReusabilityInfor mation	0..1	Provides the ability to specify details about the reusability of a healthcare trade item.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	isTradeItemImplantab le	NonBinaryLogicEn umeration	0..1	Implantable devices are defined as devices that are partly or totally inserted into the human body, as determined by local regulations.
Attribute	mRICompatibilityCod e	MRICompatibilityC ode	0..1	This is an identification of the compatibility of a trade item for use in the presence of a Magnetic Resonance Imaging (MRI) system.
MedicalDeviceInfo rmentationModule				A module containing information on medical device trade items.
Association		MedicalDeviceInfor mation	0..1	Information on medical device trade items.
HealthcareTradeIt emReusabilityInfor mation				Provides the ability to specify details about the reusability of a healthcare trade item.
Attribute	manufacturerDeclare dReusabilityTypeCod e	HealthcareTradeIt emReusabilityTypeC ode	0..1	Determines if the product is intended for single or multiple uses, including the number of validated cycles and the number of times a product can be used according to the manufacturer specifications. It is suggested that medical providers consult the device manufacturer's Instruction For Use (IFU) for full reusability instructions.
Attribute	maximumCyclesReus able	nonNegativeIntege r	0..1	Maximum number of times this Trade Item can be reused.
Attribute	maximumReusableD ays	nonNegativeIntege r	0..1	Maximum number of days this product can be reused.
Attribute	reuseInstructions	Description1000	0..1	Additional instructions that advise the customer on the reusability limitations of this product.
TradeItemSterilityI nformation				Information regarding sterility of Healthcare trade items.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	initialManufacturerSterilisationCode	SterilisationTypeCode	0..*	Type(s) of sterilisation that may have been performed by the manufacturer if a trade item is sterile when it comes from the manufacturer. Sterilisation refers to any process that effectively kills or eliminates transmissible agents (such as fungi, bacteria, viruses, prions and spore forms etc.) from a surface, equipment, foods, medications, or biological culture medium. Some methods of sterilisation are through the application of heat, radiation, and ethylene.
Attribute	initialSterilisationPriorToUseCode	SterilisationTypeCode	0..*	This is an indication of the type(s) of sterilisation that is required to be completed by a healthcare provider prior to initial use of the healthcare trade item. Sterilisation refers to any process that effectively kills or eliminates transmissible agents (such as fungi, bacteria, viruses, prions and spore forms etc.) from a surface, equipment, foods, medications, or biological culture medium. Some methods of sterilisation are through the application of heat, radiation, and ethylene.
Attribute	isTradeItemRequiredToRemainSterile	NonBinaryLogicEnumeration	0..1	An indication that the products sterile status must be maintained from the point in time of sterilisation until point of administration.
Attribute	manufacturerSpecifiedAcceptableResterilisationCode	SterilisationTypeCode	0..*	This is a list of the type(s) of acceptable sterilisation that a reusable trade item can undergo by a healthcare provider if a trade item is reusable. Sterilisation refers to any process that effectively kills or eliminates transmissible agents (such as fungi, bacteria, viruses, prions and spore forms etc.) from a surface, equipment, foods, medications, or biological culture medium. Some methods of sterilisation are through the application of heat, radiation, and ethylene.

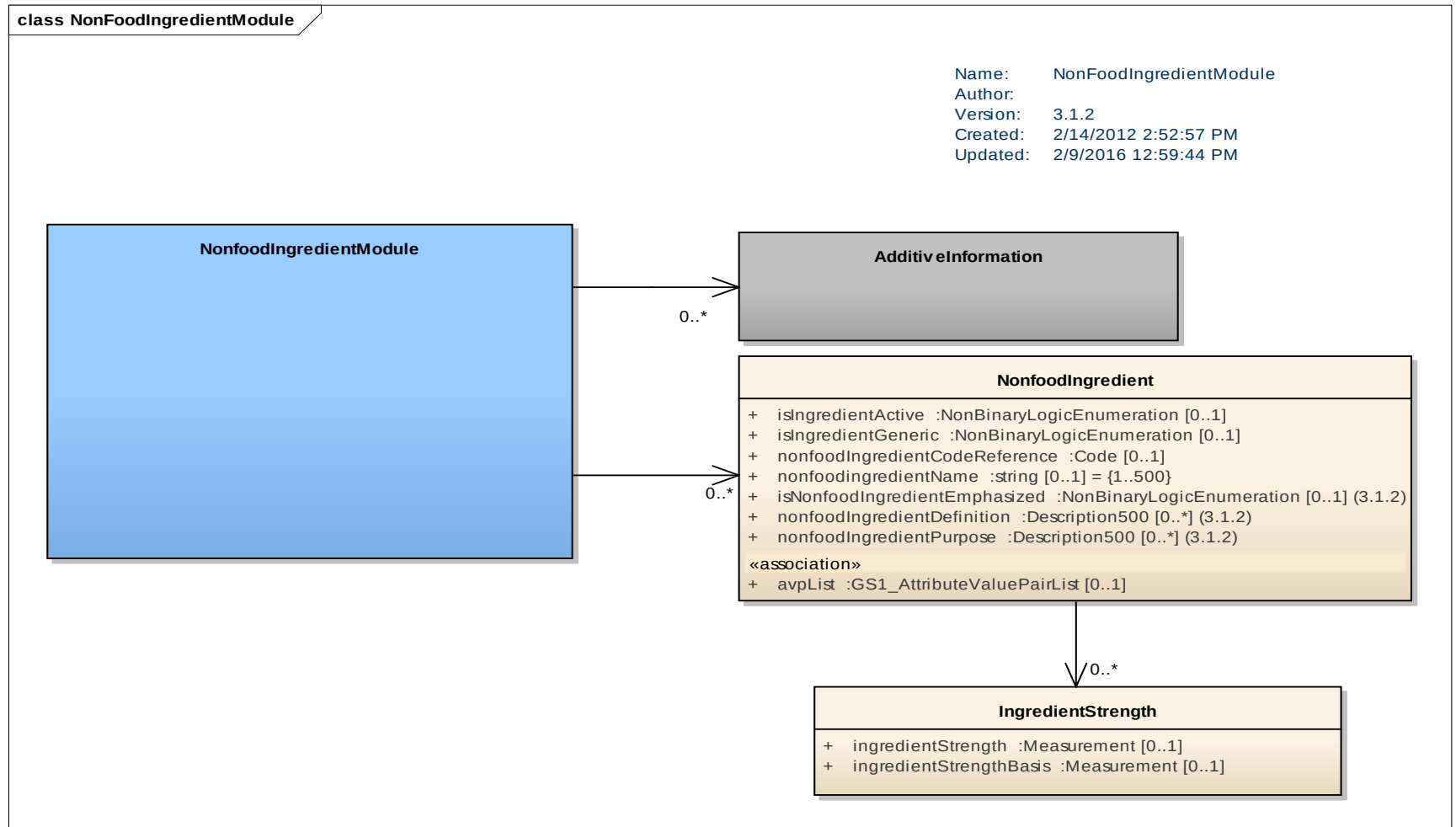
5.32. Movie Revenue Information Module



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
MovieRevenueInformationModule				A module containing attributes relating to the revenue of a film.
Association		MovieRevenueInformation	0..1	Logical grouping of attributes relating to the revenue of a film.
MovieRevenueInformation				Logical grouping of attributes relating to the revenue of a film.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	boxOfficeRevenueDomestic	Amount	0..1	The revenue the film earned on the target market expressed in local currency.
Attribute	boxOfficeRevenueFirstWeekDomestic	Amount	0..1	The revenue the film earned on the target market for the first week expressed in local currency.
Attribute	boxOfficeRevenueUS	Amount	0..1	The revenue the film earned on the US market expressed in US dollars.
Attribute	boxOfficeRevenueWorldwideUSDollars	Amount	0..1	The revenue the film earned on all the markets expressed in US dollars.the revenue the film earned on all the markets expressed in US dollars.
Attribute	isEligibleForRevenueShare	NonBinaryLogicEnumeration	0..1	A boolean that indicates if the film is available for revenue share or not.

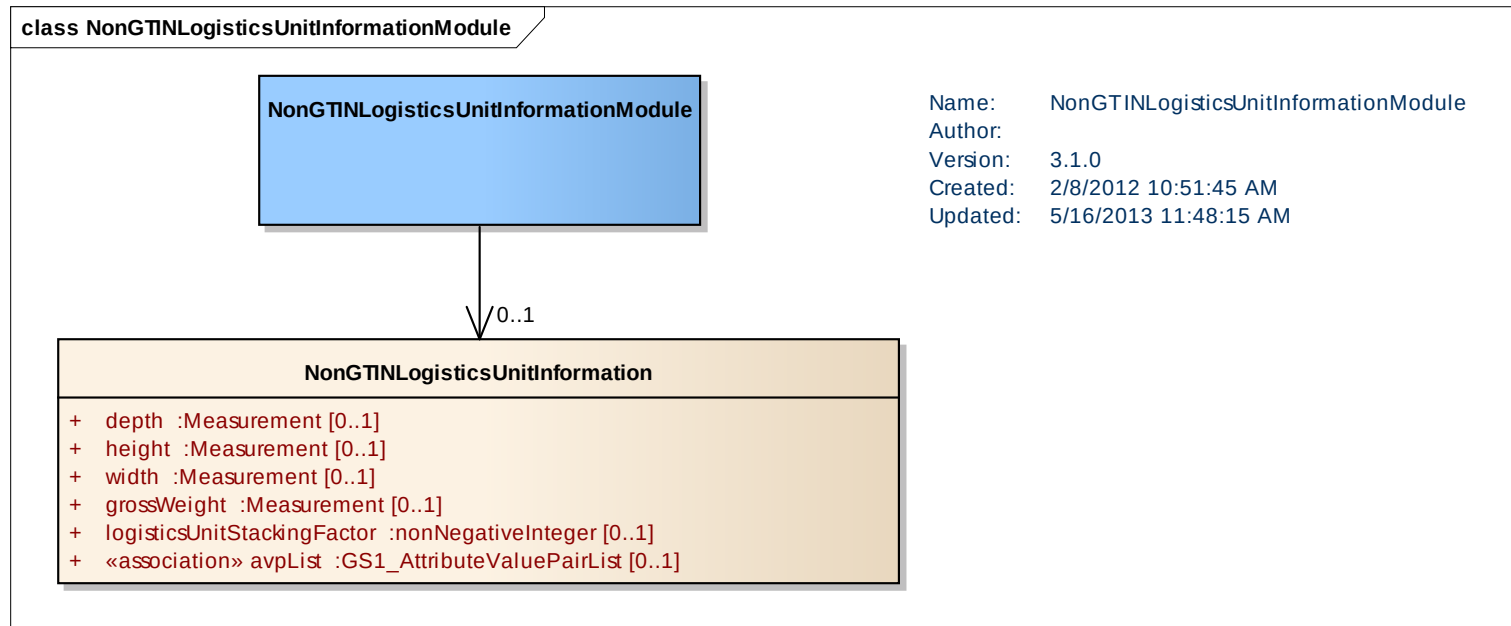
5.33. Nonfood Ingredient Module



Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multipli city	definition
NonfoodIngredient				Information on ingredients for items that are not food for example detergents, medicines.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
association		IngredientStrength	0..*	Information on the strength of a nonfood ingredient.
Attribute	isIngredientActive	NonBinaryLogicEnumeration	0..1	Determines whether the ingredient helps directly in achieving the objectives of the trade item.
Attribute	isIngredientGeneric	NonBinaryLogicEnumeration	0..1	Determines whether the ingredient is classified as being generic.
Attribute	isNonfoodIngredientEmphasized	NonBinaryLogicEnumeration	0..1	Denotes the nonfood ingredient that should have its text emphasised in some fashion on the item's packaging.
Attribute	nonfoodIngredientCodeReference	Code	0..1	A code from a specific code list for a nonFood ingredient.
Attribute	nonfoodIngredientDefinition	Description500	0..*	A definition associated with the value in the nonfoodIngredientName. The definition should explain to the end user what the nonfood ingredient is.
Attribute	nonfoodIngredientName	string	0..1	The name of the non-food ingredient for example ammonia.
Attribute	nonfoodIngredientPurpose	Description500	0..*	A description of the primary purpose that an ingredient serves for example for sunscreen the ingredient may have the purpose of being a UVB Blocker.
NonfoodIngredientModule				A module providing Information on ingredients for items that are not food for example detergents, medicines.
Association		NonfoodIngredient	0..*	Information on ingredients for items that are not food for example detergents, medicines.
Association		AdditiveInformation	0..*	Information on presence or absence of additives or genetic modifications contained in the trade item.
IngredientStrength				Information on the strength of a nonfood ingredient.
Attribute	ingredientStrength	Measurement	0..1	Used to define the strength of each ingredient in a trade item or unit volume of non food trade items.
Attribute	ingredientStrengthBasis	Measurement	0..1	The basis amount for an ingredient strength for example 1000 millilitres in the case of 400 milligrams per 1000 millilitres.

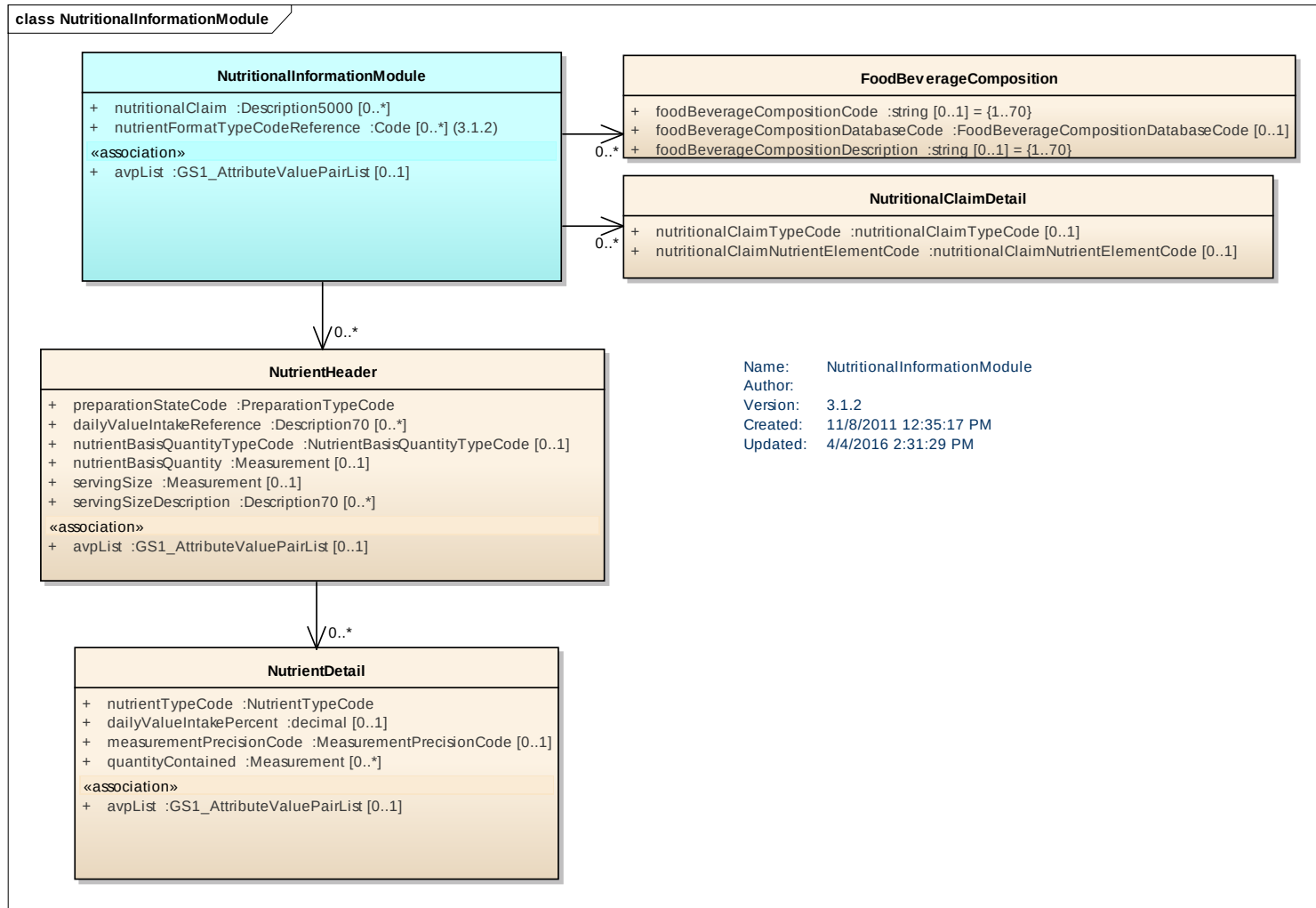
5.34. NonGTIN Logistics Unit Information Module

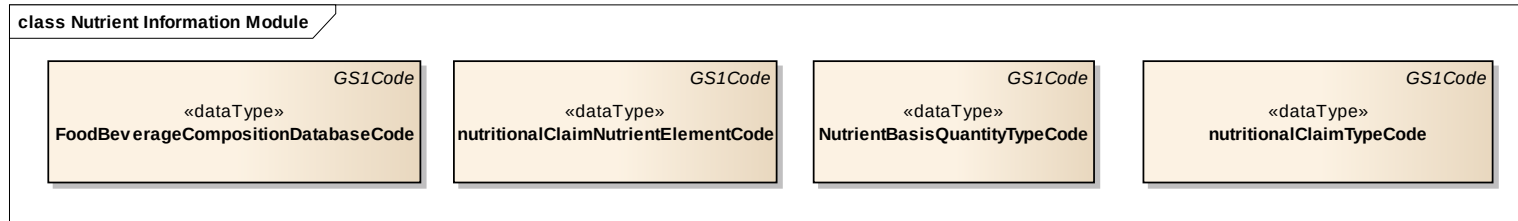


content	attribute / role	datatype /secondary class	multipl city	definition
NonGTINLogisticsUnitInformationModule				A module detailing information on a logistics item without a GTIN.
Association		NonGTINLogisticsUnitInformation	0..1	Details on a logistics item without a GTIN.
NonGTINLogisticsUnitInformation				Details on a logistics item without a GTIN.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	depth	Measurement	0..1	The depth of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform.
Attribute	height	Measurement	0..1	The height of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform unless it is excluded according to the Platform Type Code chosen.
Attribute	width	Measurement	0..1	The width of the unit load, as measured according to the GDSN Package Measurement Rules, including the shipping platform unless it is excluded according to the Platform Type Code chosen.
Attribute	grossWeight	Measurement	0..1	The weight of both the unit load (content) and the platform upon which the goods are carried if there is one.
Attribute	logisticsUnitStacki ngFactor	nonNegativeIntege r	0..1	The stacking factor of both the unit load (content) and the platform upon which the goods are carried, if there is one. A stacking factor determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.

5.35. Nutritional Information Module



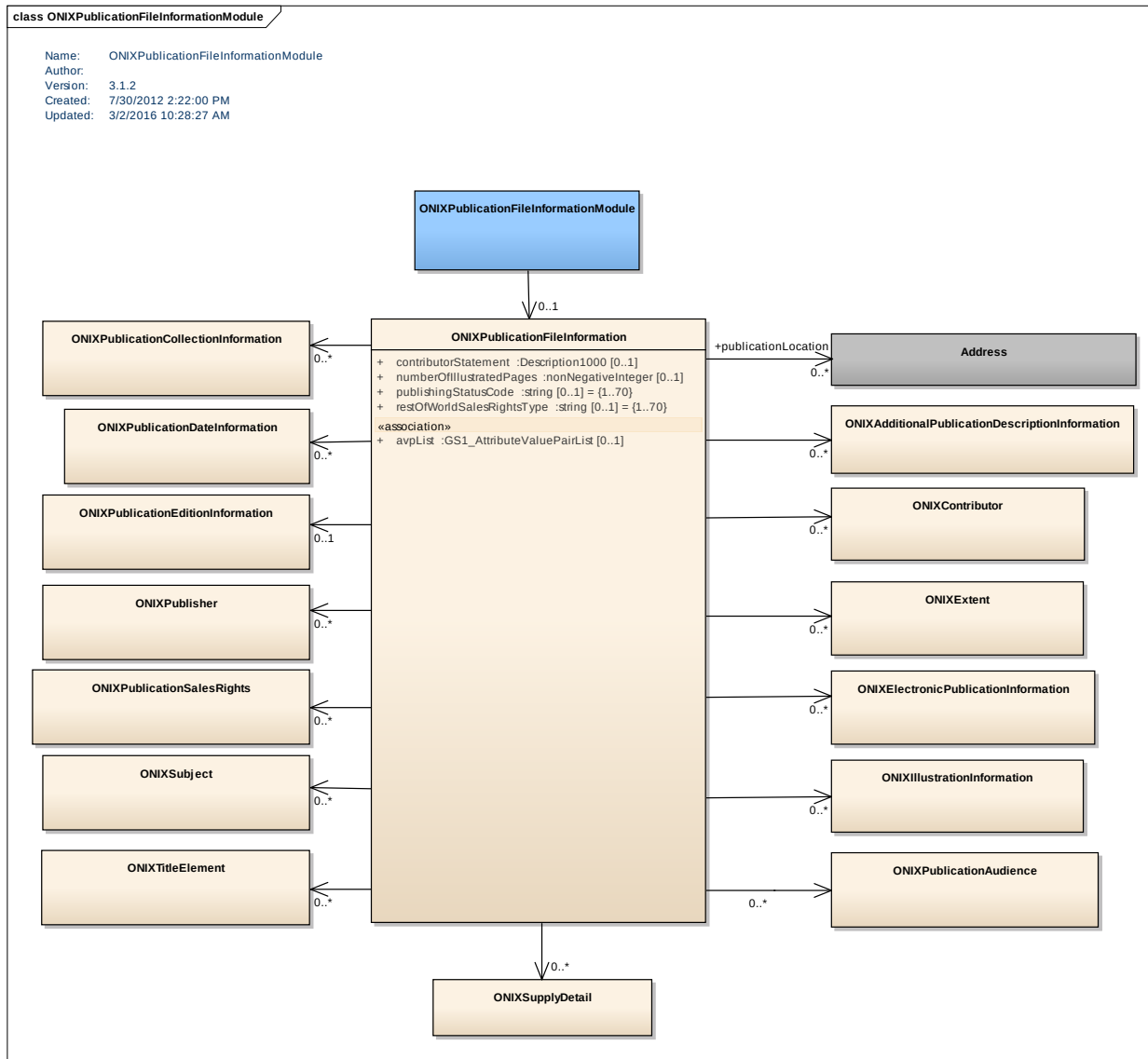


content	attribute / role	datatype /secondary class	multipl city	definition
FoodBeverageCom position				Information on the nutritional composition of foods and beverages from food composition databases.
Attribute	foodBeverageComp ositionCode	string	0..1	A value assigned by the agency for the lookup of food composition information that applies to regulatory nutrition information e.g. R851011.
Attribute	foodBeverageComp ositionDatabaseCo de	FoodBeverageCom positionDatabaseC ode	0..1	A code depicting an agency which manages a food composition database that applies to regulatory nutrition information, for example, the Government of Canada.
Attribute	foodBeverageComp ositionDescription	string	0..1	A text description of either the associated value or the actual database entry lookup for example chicken soup clear instant.
NutritionalClaimDet ail				Details on a nutritional claim for a trade item permitted by known regulations for a target market.
	nutritionalClaimTyp eCode	nutritionalClaimTyp eCode	0..1	A code depicting the degree to which a trade item contains a specific nutrient or ingredient in relation to a health claim for example FREE_FROM.
	nutritionalClaimNutr ientElementCode	nutritionalClaimNutr ientElementCode	0..1	The type of nutrient, ingredient, vitamins and minerals that the nutritional claim is in reference to for example fat, copper, milk.
NutritionalInformatio nModule				Information about content of nutrients. Multiple sets of nutrient information can be specified with varying state, serving size and daily value intake base.
Attribute	nutritionalClaim	Description5000	0..*	Free text field for any additional nutritional claims.
Attribute	nutrientFormatType CodeReference	Code	0..*	Specifies how nutrition information is displayed or provided for each prepackaged food for different nutrition layouts for example NFT.
Association	avpList	GS1_AttributeValu ePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

content	attribute / role	datatype /secondary class	multipl city	definition
Association		NutrientHeader	0..*	Nutrient information for a trade item.
Association		NutritionalClaimDetail	0..*	Details on a nutritional claim for a trade item permitted by known regulations for a target market.
Association		FoodBeverageComposition	0..*	Information on the nutritional composition of foods and beverages from food composition databases.
NutrientHeader				Information about content of nutrients. Multiple sets of nutrient information can be specified with varying state, serving size and daily value intake base.
Association		NutrientDetail	0..*	Nutrient detail for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	dailyValueIntakeReference	Description70	0..*	Free text field specifying the daily value intake base for on which the daily value intake per nutrient has been based. Example: "Based on a 2000 calorie diet."
Attribute	nutrientBasisQuantity	Measurement	0..1	The basis amount that a nutrient is measured against when it is not serving size. For example, 120 gr in the case of 30 kj per 120 gr.
Attribute	nutrientBasisQuantityTypeCode	NutrientBasisQuantityTypeCode	0..1	The type of quantity contained for example measurement, serving size, or container.
Attribute	preparationStateCode	PreparationTypeCode	1..1	Code specifying the preparation state or type the nutrient information applies to, for example, unprepared, boiled, fried.
Attribute	servingSizeDescription	Description70	0..*	A free text field specifying the serving size for which the nutrient information has been stated for example: per 1/3 cup (42 g).
Attribute	servingSize	Measurement	0..1	Measurement value specifying the serving size in which the information per nutrient has been stated. Example: Per 100 grams.
NutrientDetail				Information on the nutrients contained in the product. Examples are vitamins, minerals, different types of carbohydrates, different types of saturated fat, types of unsaturated fat, types of polyunsaturated fat.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

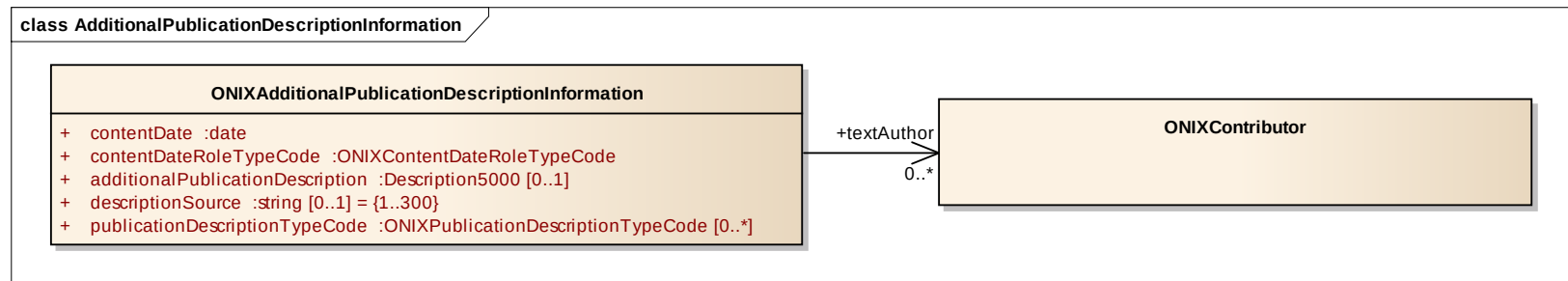
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	dailyValueIntakePer cent	decimal	0..1	The percentage of the recommended daily intake of a nutrient as recommended by authorities of the target market. Is expressed relative to the serving size and base daily value intake.
Attribute	measurementPrecis ionCode	MeasurementPreci sionCode	0..1	Code indicating whether the specified nutrient content is exact or approximate. One should follow local regulatory guidelines when selecting a precision.
Attribute	nutrientTypeCode	NutrientTypeCode	1..1	Code from the list of the INFOODS food component tag names
Attribute	quantityContained	Measurement	0..*	Measurement value indicating the amount of nutrient contained in the product. Is expressed relative to the serving size.

5.36. ONIX Publication File Information Module



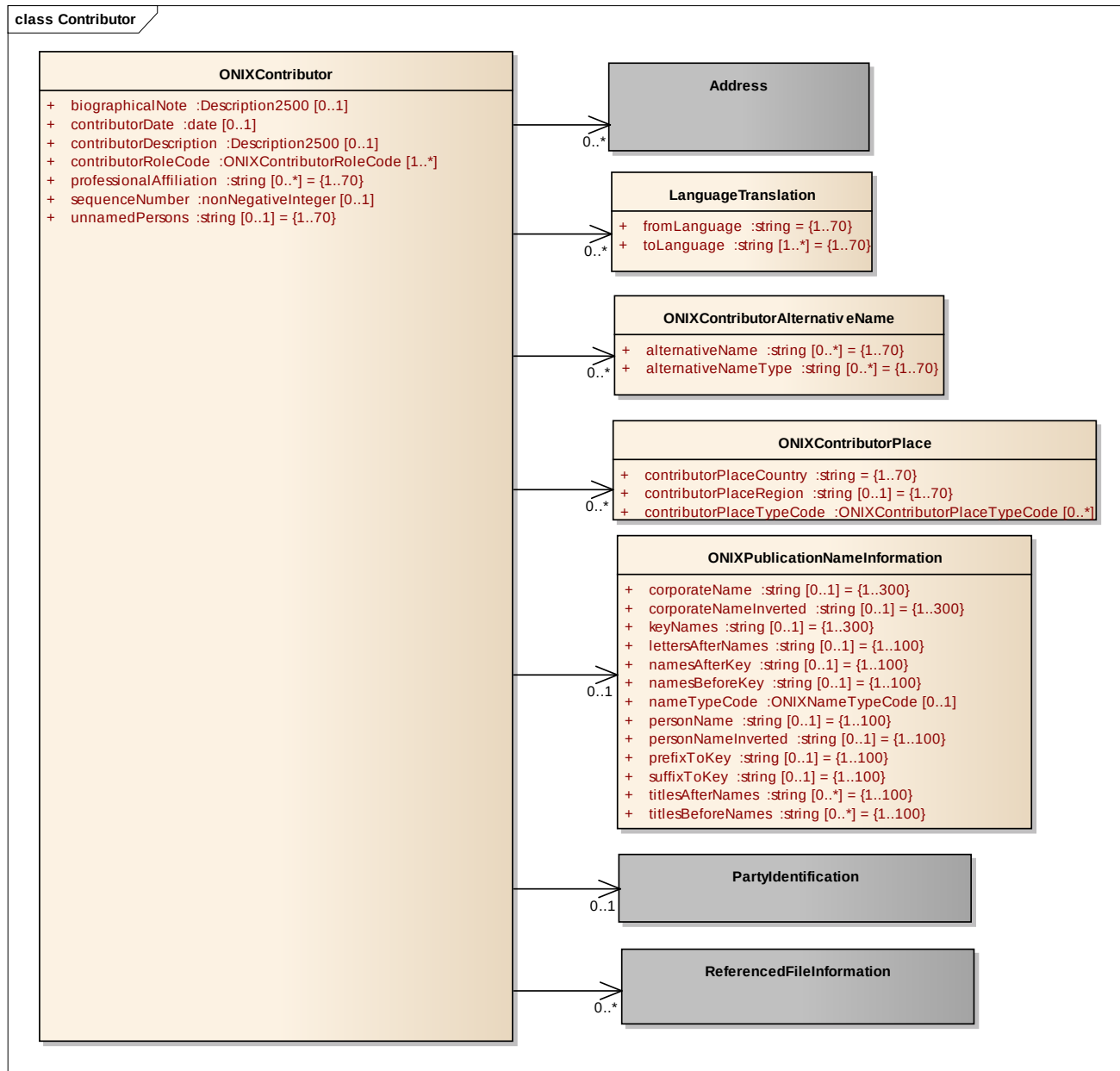
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationFileInformationModule				An extension to the trade item providing books and publication information found in ONIX files.
Association		ONIXPublicationFileInformation	0..1	Trade item information on books and publication found in ONIX files.
ONIXPublicationFileInformation				An extension to the trade item providing books and publication information found in ONIX files.
Association	publicationLocation	Address	0..*	The location (e.g. City, Country) where the item was published.
Association		ONIXAdditionalPublicationDescriptionInformation	0..*	Additional Publication Descriptions/Reviews for Publication Information
Association		ONIXContributor	0..*	information on Contributors for Publication Information
Association		ONIXExtent	0..*	Information on Extent for Publication Information
Association		ONIXElectronicPublicationInformation	0..*	Electronic publication details for a trade item.
Association		ONIXIllustrationInformation	0..*	information on Illustration Information for Publication Information
Association		ONIXPublicationAudience	0..*	Information on Target Audience for Publication Information
Association		ONIXPublisher	0..*	information on Publisher for Publication Information
Association		ONIXPublicationCollectionInformation	0..*	Information on Publication Collections for Publication Information
Association		ONIXPublicationDateInformation	0..*	Information on Publication Date Information for Publication Information
Association		ONIXPublicationEditionInformation	0..1	Information on Publication Edition Information for Publication Information
Association		OnixPublicationSalesRights	0..*	Information on Sales Rights for Publication Information
Association		ONIXSubject	0..*	This information on Subject for Publication Information
Association		ONIXSupplyDetail	0..*	Details for an ONIX file regarding the supply and availability of a publication.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association		ONIXTitleElement	0..*	Information on Publication Title for Publication Information
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	contributorStatement	Description1000	0..1	Text showing how the authorship should be described in an online display, when a standard concatenation of individual contributor elements would not give a satisfactory presentation. Optional and non-repeating. When this field is sent, the receiver should use it to replace all name detail sent in the Contributor Class for display purposes only. It does not replace the biographicalNote attribute.
Attribute	numberOfIllustratedPages	nonNegativeInteger	0..1	The total number of illustrations in a book or other printed product.
Attribute	publishingStatusCode	string	0..1	Identifies the status of a published product
Attribute	restOfWorldSalesRightsType	String	0..1	A description of the sales rights applicable in territories not specifically associated with a defined sales right.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXAdditionalPublicationDescriptionInformation				A group of data elements which together carry text related to the product.
Association	textAuthor	ONIXContributor	0..*	The name of an author of text
Attribute	additionalPublicationDescription	Description5000	0..1	The publication description to be used for marketing purposes (i.e. cover description, review).

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	contentDate	date	1..1	Date information applicable to the Additional Description Information
Attribute	contentDateRoleTypeCode	OnixContentDateRoleTypeCode	1..1	Indicates the significance of the date in relation to the text content.
Attribute	descriptionSource	string	0..1	The name of a company or corporate body responsible for the text.
Attribute	publicationDescriptionTypeCode	ONIXPublicationDescriptionTypeCode	0..*	Identifies the type of text which is sent. This attribute uses the Description Type Code List (ONIX Code 153)

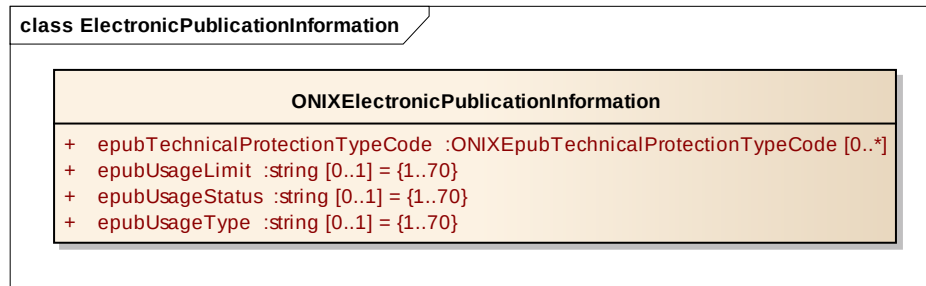


content	attribute / role	datatype /secondary class	multiplic ity	definition
ONIXContributor				A group of data elements which together describe a personal or corporate contributor to a collection.
Association		Address	0..*	City and country information for a contributor.
Association		LanguageTranslati on	0..*	Information on language translations performed by the contributor.
Association		ONIXContributorAlt ernativeName	0..*	Any alternative names for the contributor.
Association		ONIXContributorPl ace	0..*	Location information for a contributor.
Association		ONIXPublicationNa meInformation	0..1	Publication information for a contributor.
Association		ReferencedFileIn formation	0..*	Provides the URL for the contributor website.
Association		PartyIdentification	0..1	Party identification for a contributor.
Attribute	biographicalNote	Description2500	0..1	A biographical note about a contributor to the product. May occur with a person name or with a corporate name. A biographical note should always contain the name of the person or body concerned, and it should always be presented as a piece of continuous text consisting of full sentences.
Attribute	contributorDate	date	0..1	The date specified that is associated with the person or organization identified as a contributor.
Attribute	contributorDescription	Description2500	0..1	Brief text describing a contributor to the product, at the publisher's discretion. Optional and non-repeating. It may be used with either a person or corporate name, to draw attention to any aspect of a contributor's background which supports the promotion of the book.
Attribute	contributorRoleCode	ONIXContributorRo leCode	1..*	Indicates the role played by a person or corporate body in the creation of the product. Mandatory in each occurrence of the Contributor class, and may be repeated if the same person or corporate body has more than one role in relation to the product.
Attribute	professionalAffiliation	string	0..*	An organisation to which a contributor to the product was affiliated at the time of its creation
Attribute	sequenceNumber	nonNegativeInteger	0..1	A number which specifies a single overall sequence of contributor names

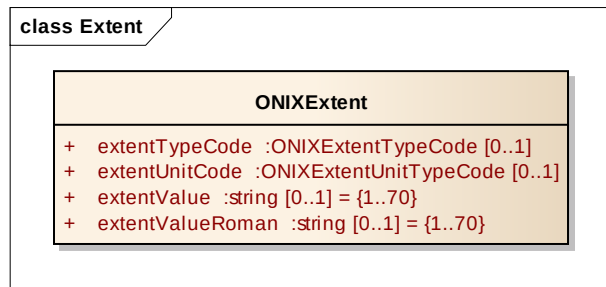
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	unnamedPersons	string	0..1	Positive indication to be given when authorship is unknown or anonymous, or when as a matter of editorial policy only a limited number of contributors are named.Utilizes Unnamed Persons Code List.
ONIXContributorPlace				Location information for a contributor.
Attribute	contributorPlaceCountry	string	1..1	A code identifying a country with which a contributor is particularly associated.
Attribute	contributorPlaceRegion	string	0..1	Identifies a region with which a contributor is particularly associated
Attribute	contributorPlaceTypeCode	ONIXContributorPlaceTypeCode	0..*	Identifies a region with which a contributor is particularly associated
ONIXPublicationNameInformation				Publication information for a contributor.
Attribute	corporateName	string	0..1	The name of a corporate body.
Attribute	corporateNameInverted	string	0..1	The inverted name of a corporate body
Attribute	keyNames	string	0..1	Part of a structured name of a person who contributed to the creation of the product: key name(s), i.e. the name elements normally used to open an entry in an alphabetical list, e.g. 'Smith' or 'Garcia Marquez' or 'Madonna' or 'Francis de Sales' (in Saint Francis de Sales).
Attribute	lettersAfterNames	string	0..1	Qualifications and honours following a person's names, e.g. 'CBE FRS'.
Attribute	namesAfterKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: name suffix, or name(s) following a person's key name(s), e.g. 'Ibrahim' (in Anwar Ibrahim).
Attribute	namesBeforeKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: name(s) and/or initial(s) preceding a person's key name(s), e.g. James J
Attribute	nameTypeCode	ONIXNameTypeCode	0..1	Indicates the type of the name
Attribute	personName	string	0..1	The name of a person who contributed to the creation of the product, unstructured, and presented in normal order.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	personNameInverted	string	0..1	The name of a person who contributed to the creation of the product, presented in inverted order, with the element used for alphabetical sorting placed first.
Attribute	prefixToKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: a prefix which precedes the key name(s) but which is not to be treated as part of the key name, e.g. 'van' in Ludwig van Beethoven. This element may also be used for titles that appear after given names and before key names, e.g. 'Lord' in Alfred, Lord Tennyson.
Attribute	suffixToKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: a suffix following a person's key name(s), e.g. 'Jr' or 'III'.
Attribute	titlesAfterNames	string	0..*	Part of a structured name of a person who contributed to the creation of the product: titles following a person's names, e.g. 'Duke of Edinburgh'.
Attribute	titlesBeforeNames	string	0..*	Part of a structured name of a person who contributed to the creation of the product: qualifications and/or titles preceding a person's names, e.g. 'Professor' or 'HRH Prince' or 'Saint'.
LanguageTranslation				Information on any language translations (from and to) that apply to the published trade item.
Attribute	fromLanguage	string	1..1	Used only when the code value is B06, B08 or B10 indicating a translator, to specify the source language from which the translation was made. This element makes it possible to specify a translator's exact responsibility when a work involves translation from two or more languages. Optional and repeatable in the event that a single person has been responsible for translation from two or more languages.
Attribute	toLanguage	string	1..*	Used only when the code value is B06, B08 or B10 indicating a translator, to specify the target language into which the translation was made. This element makes it possible to specify a translator's exact responsibility when a work involves translation into two or more languages. Optional and repeatable in the event that a single person has been responsible for translation to two or more languages.
ONIXContributorAlternativeName				Any alternative names for the contributor.

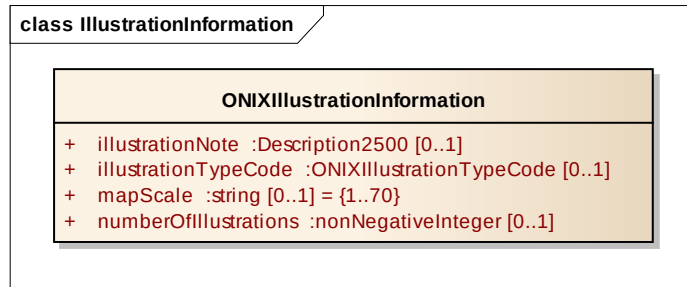
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	alternativeName	string	0..*	It may be used to send a pseudonym as well as a real name, where both names are on the product, eg to handle such cases as 'Ian Rankin writing as Jack Harvey'; or to send an authority-controlled form of a name; or to identify the real name of the contributor where the book is written under a pseudonym (and the real identity need not be kept private). Note that in all cases, the primary name is that used on the product, and the alternative name merely provides additional information.
Attribute	alternativeNameType	string	0..*	Indicates the type of the name sent in an occurrence of the composite.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXElectronicPublicationInformation				Describes a usage constraint on a digital product, whether imposed by DRM technical protection or inherent in the platform used (or the absence of such constraint).
Attribute	epubTechnicalProtectionTypeCode	ONIXEpubTechnicalProtectionTypeCode	0..*	Specifies whether a digital product has DRM or other technical protection features.
Attribute	epubUsageLimit	string	0..1	Specifies a quantitative limit on a particular type of usage of a digital product.
Attribute	epubUsageStatus	string	0..1	Specifies the status of a usage of a digital product, e.g. permitted without limit, permitted with limit, prohibited. Use ONIXUsageStatusCode.
Attribute	epubUsageType	string	0..1	Specifies a usage of a digital product. Use ONIXUsageTypeCode



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXExtent				A repeatable group of data elements which together describe an extent pertaining to the product. Optional, but in practice required for most products, e.g. to give the number of pages in a printed book or paginated ebook, or to give the running time of an audiobook.
Attribute	extentTypeCode	ONIXExtentTypeCode	0..1	An ONIX code which identifies the type of extent carried in the composite, eg running time for an audio or video product. Mandatory in each occurrence of the <Extent> composite, and non-repeating. From Issue 9 of the code lists, an extended set of values for <ExtentType> has been defined to allow more accurate description of pagination.
Attribute	extentUnitCode	ONIXExtentUnitTypeCode	0..1	An ONIX code indicating the unit used for the <ExtentValue> and the format in which the value is presented. Mandatory in each occurrence of the <Extent> composite, and non-repeating. Recommended to use ONIX List 24: Extent Unit Code.
Attribute	extentValue	string	0..1	The numeric value of the extent specified in <ExtentType>. Optional, and non-repeating. However, either <ExtentValue> or <ExtentValueRoman> must be present in each occurrence of the <Extent> composite; and it is very strongly recommended that <ExtentValue> should always be included, even when the original product uses Roman numerals.
Attribute	extentValueRoman	string	0..1	The value of the extent expressed in Roman numerals. Optional, and non-repeating. Used only for page runs which are numbered in Roman.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXIllustrationInformation				A repeatable group of data elements which together specify the number of illustrations which the product carries.
Attribute	illustrationNote	Description2500	0..1	For books or other text media only, this data element carries text stating the number and type of illustrations. The text may also include other content items, eg maps, bibliography, tables, index etc. Optional and non-repeating.
Attribute	illustrationTypeCode	ONIXIllustrationTypeCode	0..1	Identifies the type of illustration or other content to which an occurrence of the composite refers. Mandatory in each occurrence
Attribute	mapScale	string	0..1	The scale of a map, expressed as a ratio 1:nnnnn; only the number nnnnn is carried in the data element, without spaces or punctuation. Optional, and repeatable if a product comprises maps with two or more different scales.
Attribute	numberOfIllustrations	nonNegativeInteger	0..1	The number of illustrations or other content items of the type specified. Optional and non-repeating.

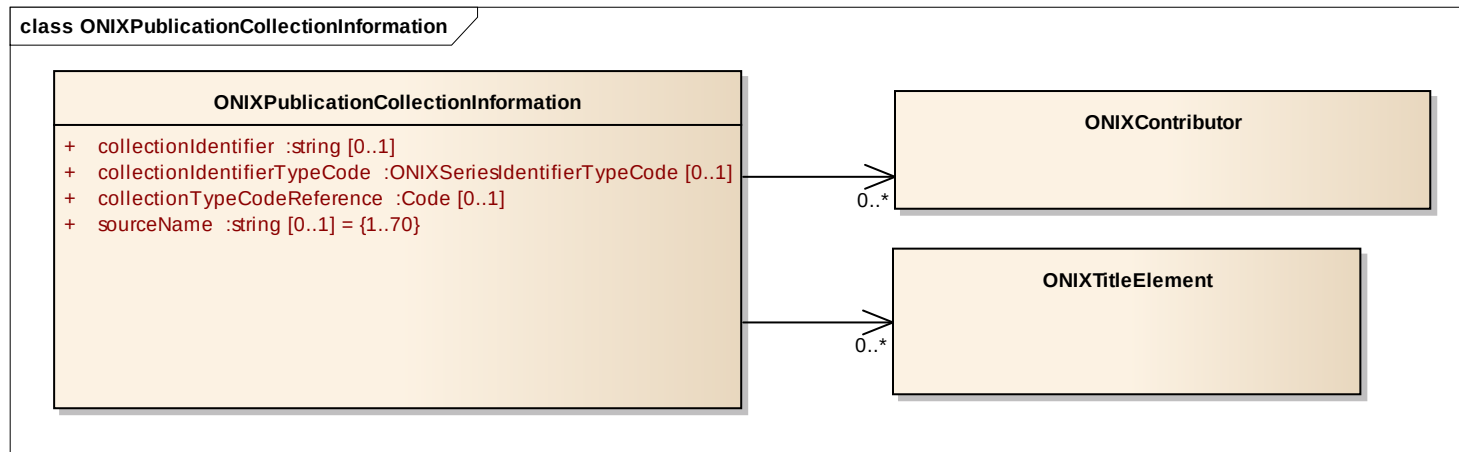
class PublicationAudience**ONIXPublicationAudience**

```

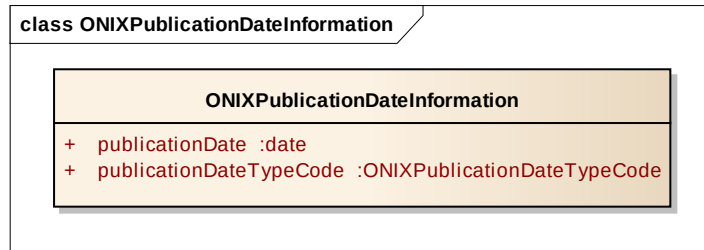
+ audienceCodeValueCode :ONIXAudienceCodeValueCode [0..*]
+ audienceDescription :Description2500 [0..1]
+ audienceRangePrecision1Code :ONIXAudiencePrecisionCode
+ audienceRangePrecision2Code :ONIXAudiencePrecisionCode
+ audienceRangeQualifierCode :ONIXAudienceRangeQualifierCode [0..1]
+ audienceRangeValue1 :string [0..*] = {1..70}
+ audienceRangeValue2 :string [0..*] = {1..70}
+ audienceTypeCodeListCode :ONIXAudienceTypeCodeListCode [0..1]

```

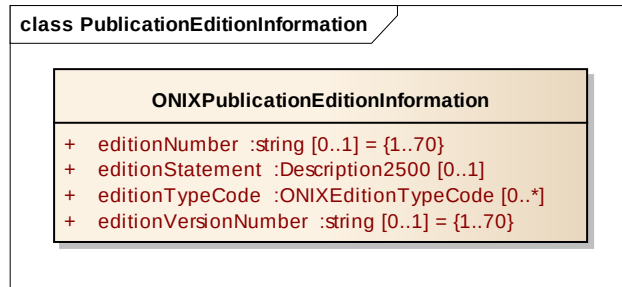
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationAudience				A repeatable group of data elements which together describe an audience to which the product is directed.
Attribute	audienceCodeValueCode	ONIXAudienceCodeValueCode	0..*	Identifies the applicable values of the appropriate audienceCodeType. For Audience Code Type 01 (Onix Type) this value should be populated with Onix Audience Code 28 (Books: Onix Audience Code Value Code)
Attribute	audienceDescription	Description2500	0..1	Free text describing the audience for which a product is intended. Optional and non-repeating.
Attribute	audienceRangePrecision1Code	ONIXAudiencePrecisionCode	1..1	Specifies the 'precision' of the value in the AudienceRange attribute which follows (From, To, Exact). Mandatory in each occurrence of the AudienceRange, and non-repeating.
Attribute	audienceRangePrecision2Code	AudiencePrecisionCode	1..1	Specifies the 'precision' of the value in AudienceRange attribute which follows. Optional and non-repeating. This second occurrence of the two elements audienceRangePrecision and audienceRange is required only when a 'From ... to ...' range is specified.
Attribute	audienceRangeQualifierCode	ONIXAudienceRangeQualifierCode	0..1	Specifies the attribute (age, school grade etc) which is measured by the value in the AudienceRange attribute.
Attribute	audienceRangeValue1	string	0..*	A value indicating an exact position within a range, or the upper or lower end of a range.
Attribute	audienceRangeValue2	string	0..*	A value indicating the upper end of a range.
Attribute	audienceTypeCodeListCode	ONIXAudienceTypeCodeListCode	0..1	Identifies the broad audience or readership for which a product is intended. Repeatable if the product is intended for two or more groups.



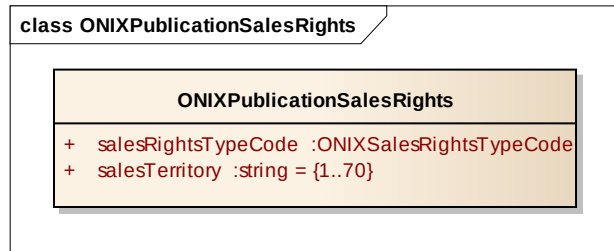
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationCollectionInformation				Carries attributes of a bibliographic collection of which the product is part.
Association		ONIXContributor	0..*	A contributor for a publication collection.
Association		ONIXTitleElement	0..*	The title element for a publication collection.
Attribute	collectionIdentifier	string	0..1	Identifier of the type specified in the collectionIDType field.
Attribute	collectionIdentifierTypeCode	ONIXSeriesIdentifierTypeCode	0..1	Identifies the scheme from which an identifier in the collectionIdentifier is taken. This attribute utilizes the Series Identifier Type Code List (Onix List 13)
Attribute	collectionTypeCodeReference	Code	0..1	Indicates the type of a bibliographic collection: publisher collection, ascribed collection, or unspecified
Attribute	sourceName	string	0..1	If the CollectionType code indicates an 'ascribed collection' (i.e. a collection which has been identified and described by a supply chain organisation other than the publisher), this element may be used to carry the name of the organisation responsible.



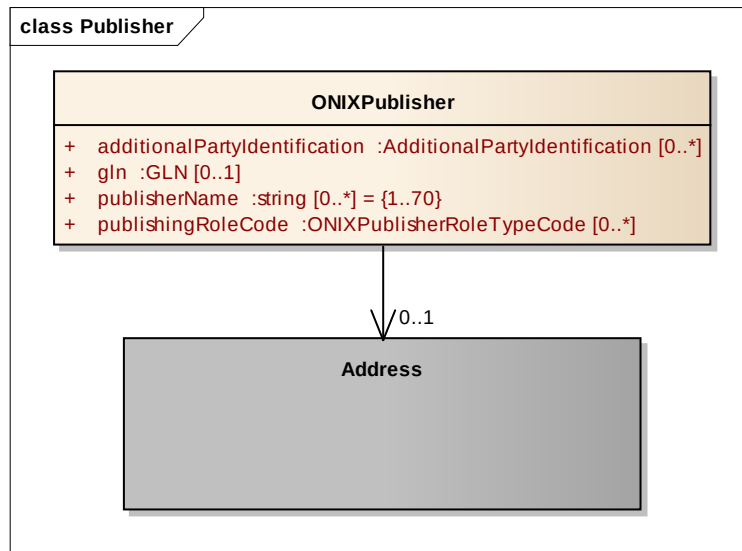
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationDateInformation				An optional and repeatable group of data elements which together specify a date associated with the text carried in an occurrence of the composite, e.g. date when quoted text was published.
	publicationDate	Date	1..1	The date specified in the field. Mandatory in each occurrence of the composite, and non-repeating. May carry a dateformat attribute: if the attribute is missing, then indicates the format of the date; if both dateformat attribute and element are missing, the default format is YYYYMMDD.
	publicationDateTypeCode	ONIXPublicationDateType	1..1	An ONIX code indicating the significance of the date in relation to the text content. Mandatory in each occurrence of the composite, and non-repeating. In ONIX this is the and utilizes list 155.



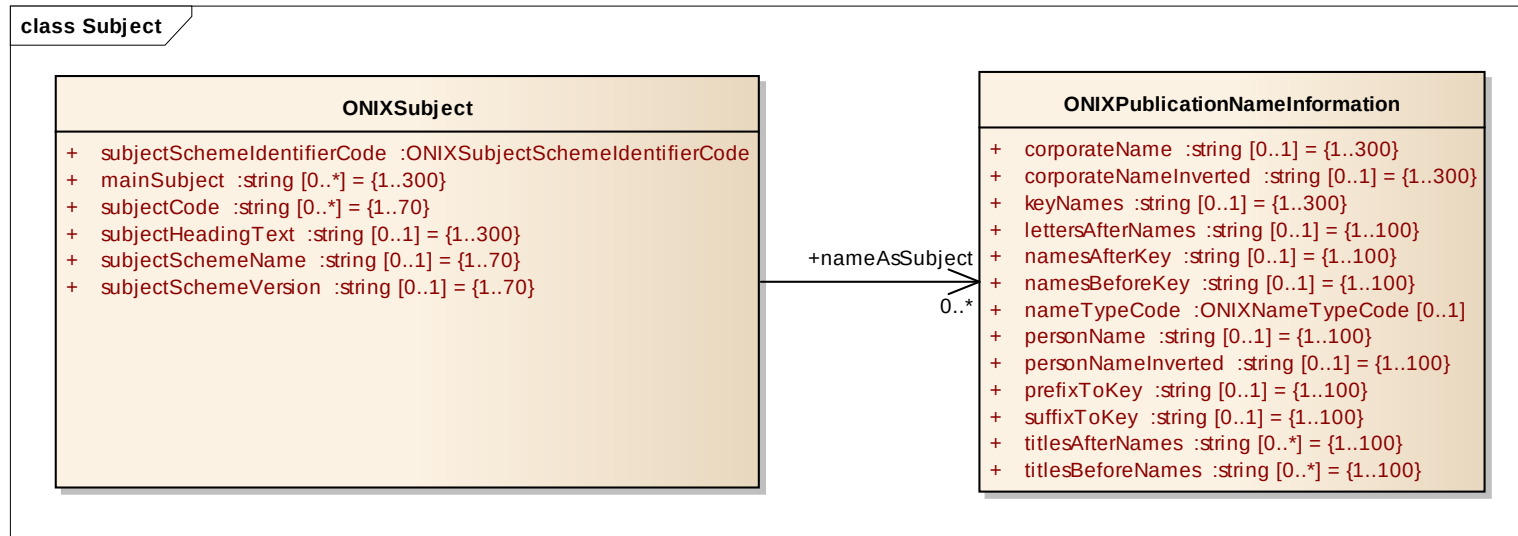
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationEditionInformation				Describes an edition of a work which is manifested in the product. Its use should generally be limited to describing an edition whose content is materially different from that of other editions of the same work. However, it may sometimes be used to specify a product feature (eg 'bilingual edition') without necessarily implying that another, different, edition also exists.
Attribute	editionNumber	string	0..1	The number of a numbered edition. Optional and non-repeating. Normally sent only for the second and subsequent editions of a work, but by agreement between parties to an ONIX exchange a first edition may be explicitly numbered.
Attribute	editionStatement	Description2500	0..1	A short free-text description of a version or edition. Optional and non-repeating. When used, an <EditionStatement> must be complete in itself, ie it should not be treated as merely supplementary to an <EditionType> or an <EditionNumber>. An <EditionStatement> should be strictly limited to describing features of the content of the edition, and should not include aspects such as rights or market restrictions.
Attribute	editionTypeCode	ONIXEditionTypeCode	0..*	Indicates the type of a version or edition. Optional, and repeatable if the product has characteristics of two or more types (eg 'revised' and 'annotated').
Attribute	editionVersionNumber	string	0..1	The number of a numbered revision within an edition number. To be used only where a publisher uses such two-level numbering to indicate revisions which do not constitute a new edition under a new ISBN or other distinctive product identifier. Optional and non-repeating. If this field is used, an <EditionNumber> must also be present.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationSalesRights				Identifies territorial sales rights a brand owner chooses to exercise in a product. When specifying a territory in which the product is not for sale, the publisher and product ID for an edition which is available in the specified territory can optionally be included.
Attribute	salesRightsTypeCode	ONIXSalesRightsTypeCode	1..1	Identifies the type of sales right or exclusion which applies in the territories which are associated with it. Mandatory in each occurrence of the <SalesRights> composite, and non-repeating. Values include: for sale with exclusive rights, for sale with non-exclusive rights, not for sale.
Attribute	salesTerritory	string	1..1	Identify a territory in which the rights specified in <SalesRightsType> are applicable. Mandatory in each occurrence of the <SalesRights> composite, and non-repeating.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublisher				A repeatable group of data elements which together identify an entity which is associated with the publishing of a product. The composite allows additional publishing roles to be introduced without adding new fields.
Association		Address	0..1	City and country information for a publisher.
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identification of a party by use of a code other than the Global Location Number.
Attribute	gln	GLN	0..1	The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the primary party identifier. Each party identified in the trading relationship must have a primary party Identification.
Attribute	publisherName	string	0..*	A name which identifies a proprietary identifier scheme (ie a scheme which is not a standard and for which there is no individual ID type code) when, and only when, the code in the <PublisherIDType> element indicates a proprietary scheme.
Attribute	publishingRoleCode	ONIXPublisherRoleTypeCode	0..*	Identifies a role played by an entity in the publishing of a product.



content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXPublicationNameInformation				Publication information for a contributor.
Attribute	corporateName	string	0..1	The name of a corporate body.
Attribute	corporateNameInverted	string	0..1	The inverted name of a corporate body
Attribute	keyNames	string	0..1	Part of a structured name of a person who contributed to the creation of the product: key name(s), i.e. the name elements normally used to open an entry in an alphabetical list, e.g. 'Smith' or 'Garcia Marquez' or 'Madonna' or 'Francis de Sales' (in Saint Francis de Sales).
Attribute	lettersAfterNames	string	0..1	Qualifications and honours following a person's names, e.g. 'CBE FRS'.
Attribute	namesAfterKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: name suffix, or name(s) following a person's key name(s), e.g. 'Ibrahim' (in Anwar Ibrahim).

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	namesBeforeKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: name(s) and/or initial(s) preceding a person's key name(s), e.g. James J
Attribute	nameTypeCode	ONIXNameTypeCode	0..1	Indicates the type of the name
Attribute	personName	string	0..1	The name of a person who contributed to the creation of the product, unstructured, and presented in normal order.
Attribute	personNameInverted	string	0..1	The name of a person who contributed to the creation of the product, presented in inverted order, with the element used for alphabetical sorting placed first.
Attribute	prefixToKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: a prefix which precedes the key name(s) but which is not to be treated as part of the key name, e.g. 'van' in Ludwig van Beethoven. This element may also be used for titles that appear after given names and before key names, e.g. 'Lord' in Alfred, Lord Tennyson.
Attribute	suffixToKey	string	0..1	Part of a structured name of a person who contributed to the creation of the product: a suffix following a person's key name(s), e.g. 'Jr' or 'III'.
Attribute	titlesAfterNames	string	0..*	Part of a structured name of a person who contributed to the creation of the product: titles following a person's names, e.g. 'Duke of Edinburgh'.
Attribute	titlesBeforeNames	string	0..*	Part of a structured name of a person who contributed to the creation of the product: qualifications and/or titles preceding a person's names, e.g. 'Professor' or 'HRH Prince' or 'Saint'.
ONIXSubject				Specifies a subject classification or subject heading.
Association	nameAsSubject	ONIXPublicationNameInformation	0..*	Name as a subject
Attribute	subjectSchemeIdentifierCode	ONIXSubjectSchemeIdentifierCode	1..1	For category schemes that use code values, use the associated element to carry the value (if so required, the element can be used simultaneously to carry the text equivalent of the code). For schemes that use text headings, use the element to carry the text of the category heading.
Attribute	mainSubject	string	0..*	Main subject category for the product

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	subjectCode	string	0..*	A subject class or category code from the scheme specified in the element. Either or both must be present in each occurrence of the composite.
Attribute	subjectHeadingText	string	0..1	The text of a subject heading taken from the scheme specified in the element, or of free language keywords if the scheme is specified as 'keywords'; or the text equivalent to the value, if both code and text are sent. Either or both must be present in each occurrence of the composite.
Attribute	subjectSchemeName	string	0..1	A name identifying a proprietary subject scheme (i.e. a scheme which is not a standard and for which there is no individual identifier code) when is coded '24'.
Attribute	subjectSchemeVersion	string	0..1	A number which identifies a version or edition of the subject scheme specified in the associated element.

class ONIXTitleElement
ONIXTitleElement

```

+ subTitle :string [0..1] = {1..300}
+ titleElementLevel :string = {1..70}
+ titlePrefixType :string [0..1] = {1..70}
+ titleText :string = {1..300}
+ titleTypeCode :ONIXTitleTypeCode [1..*] = {1..70}
+ titleWithoutPrefix :string [0..1] = {1..300}
+ yearOfAnnual :string [0..1] = {1..70}
+ onixPartNumber :Description500 [0..*] (3.1.2)

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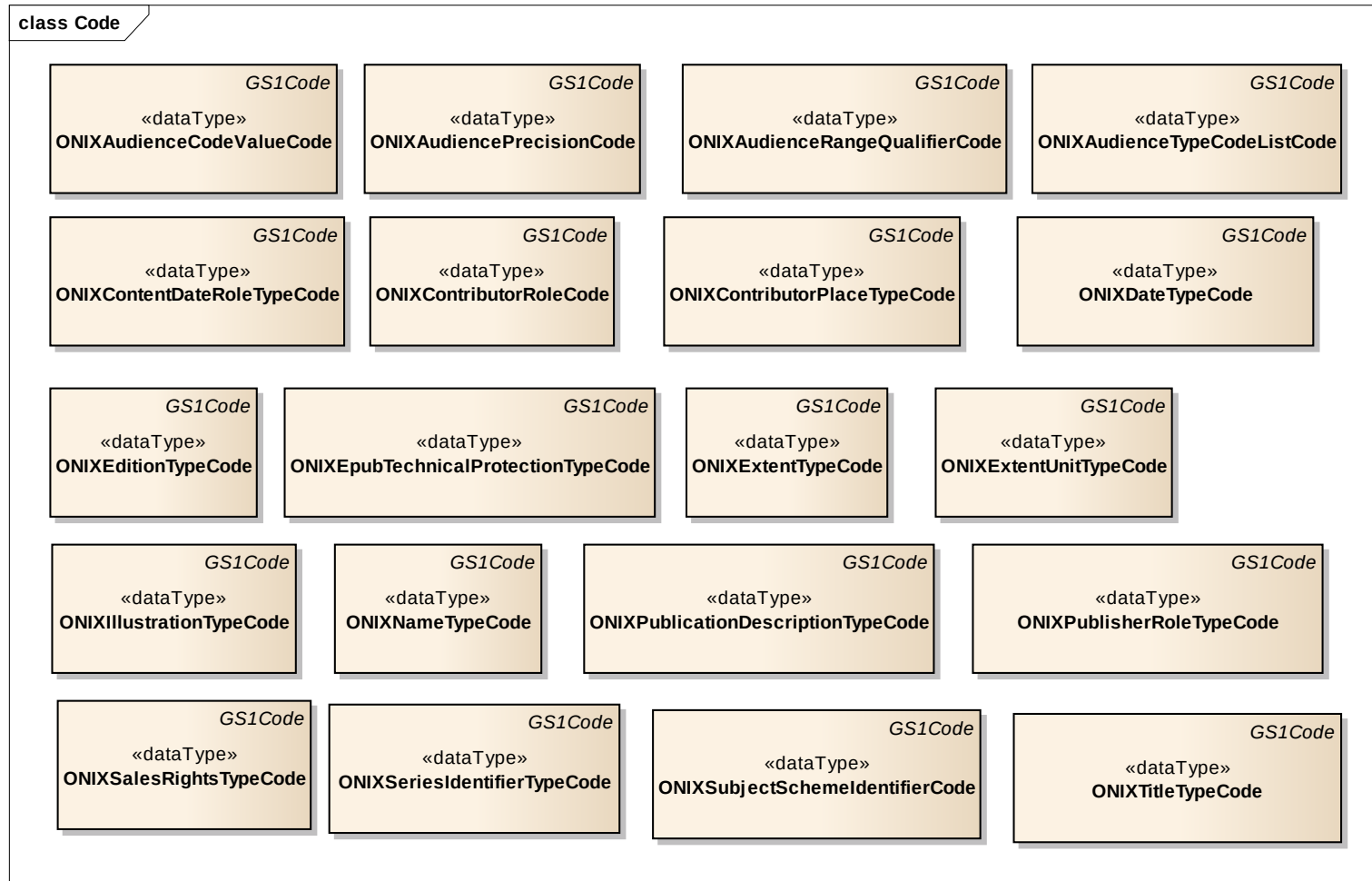
content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXTitleElement				A repeatable group of data elements which together represent an element of a collection title. At least one title element is mandatory in each occurrence of the <TitleDetail> composite. An instance of the <TitleElement>

				composite must include at least one of: <PartNumber>; <YearOfAnnual>; <TitleText>; or <TitlePrefix> together with <TitleWithoutPrefix>. In other words it must carry either the text of a title element or a part or year designation; and it may carry both. A title element must be designated as belonging to product level, collection level, or subcollection level (the first of these may not occur in a title element representing a collective identity, and the last-named may only in the case of a multi-level collection).
Attribute	onixPartNumber	Description500	0..*	When a title element includes a part designation within a larger whole (e.g. Part I, or Volume 3), this field should be used to carry the number and its 'caption' as text.
Attribute	subTitle	string	0..1	The text of a subtitle, if any. 'Subtitle' means any added words which appear with the title element given in an occurrence of the <TitleElement> composite, and which amplify and explain the title element, but which are not considered to be part of the title element itself.
Attribute	titleElementLevel	string	1..1	Code indicating the level of a title element: collection level, subcollection level, or product level. Mandatory in each occurrence of the <TitleElement> composite.
Attribute	titlePrefixType	string	0..1	Text at the beginning of a title element which is to be ignored for alphabetical sorting. Optional and non-repeating; can only be used if the <TitleWithoutPrefix> element is also present. These two elements may be used in combination in applications where it is necessary to distinguish an initial word or character string which is to be ignored for filing purposes, eg in library systems and in some bookshop databases.
Attribute	titleText	string	1..1	The text of a title element, excluding any subtitle. Optional and non-repeating.
Attribute	titleTypeCode	ONIXTitleTypeCode	1..*	Indicates the type of a title.
Attribute	titleWithoutPrefix	string	0..1	The text of a title element without the title prefix; and excluding any subtitle. Optional and non-repeating; can only be used if the <TitlePrefix> element is also present.
Attribute	yearOfAnnual	string	0..1	When the year of an annual is part of a title, this field should be used to carry the year (or, if required, a spread of years such as 2009-2010). Optional and non-repeating.

class ONIXSupplyDetailElement**ONIXSupplyDetail**

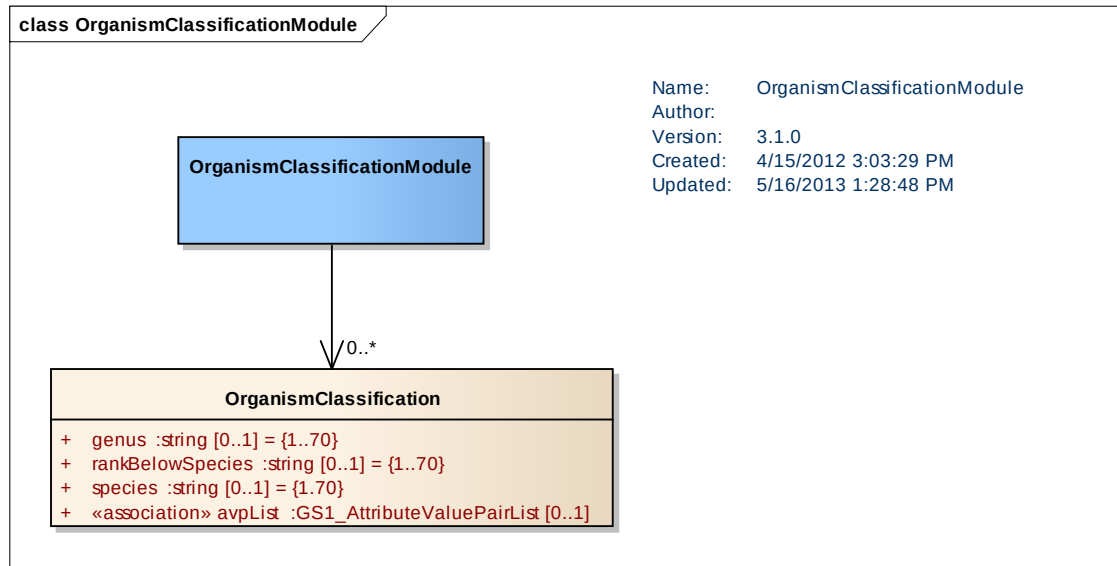
+ onixProductAvailabilityCode :ONIXProductAvailabilityCode [0..1] (3.1.2)

content	attribute / role	datatype /secondary class	multiplicity	definition
ONIXSupplyDetail				Details for an ONIX file regarding the supply and availability of a publication.
Attribute	onixProductAvailabilityCode	onixProductAvailabilityCode	0..1	A code indicating the availability of a product from a supplier. Refers to a ONIX code list 65 (Product Availability)



Note: Common class (in grey) is located in the Shared Common and GDSN Common Libraries.

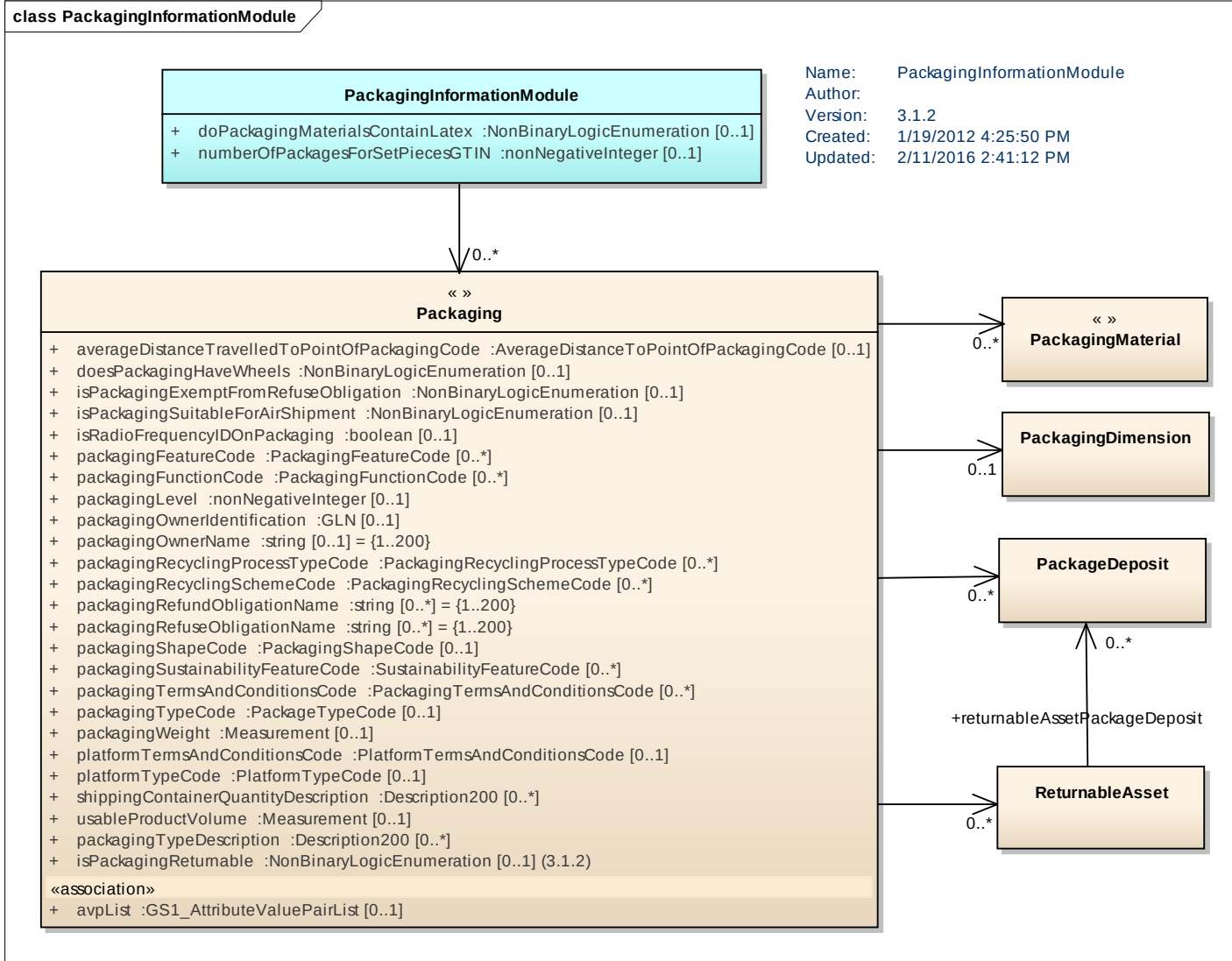
5.37. Organism Classification Module

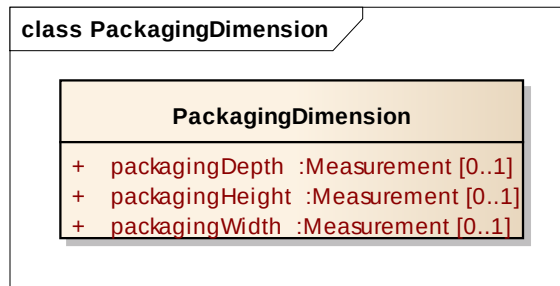
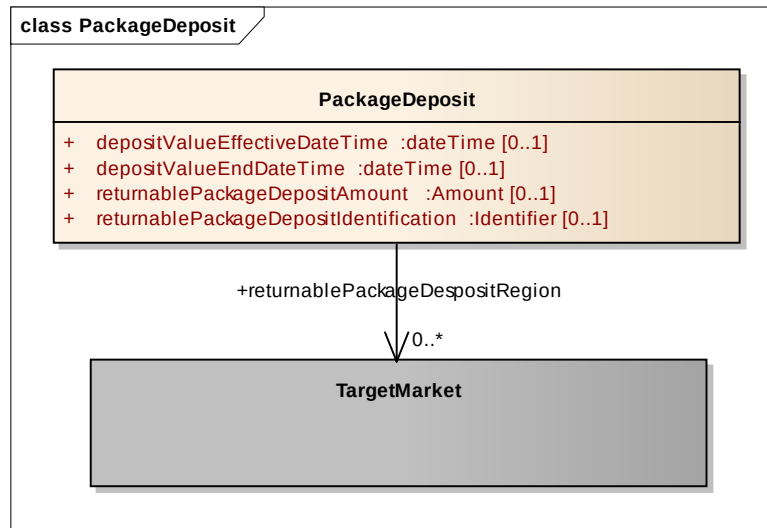


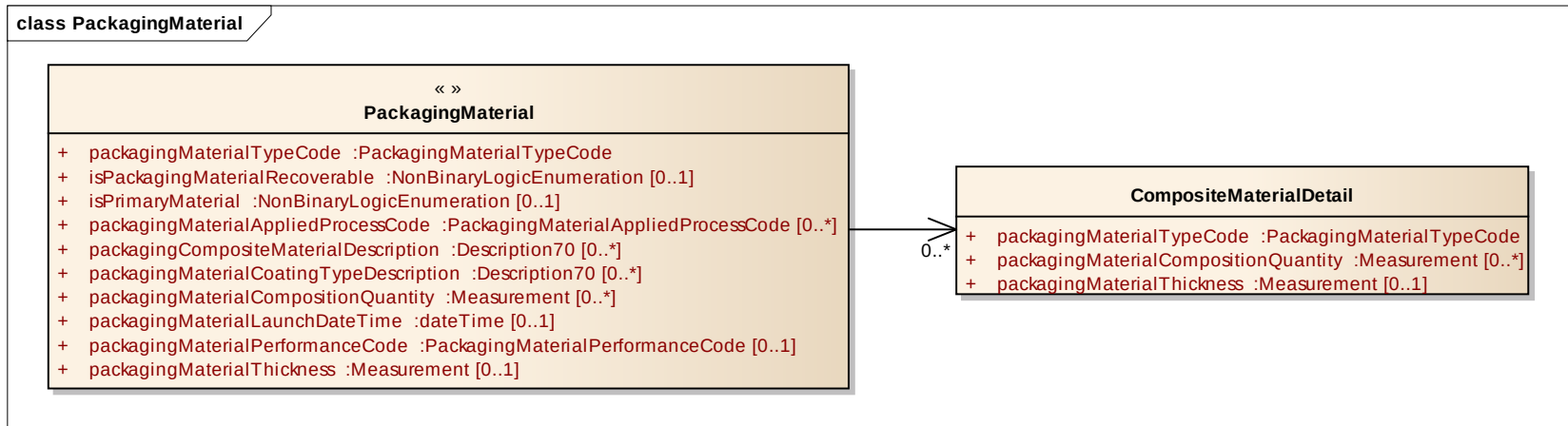
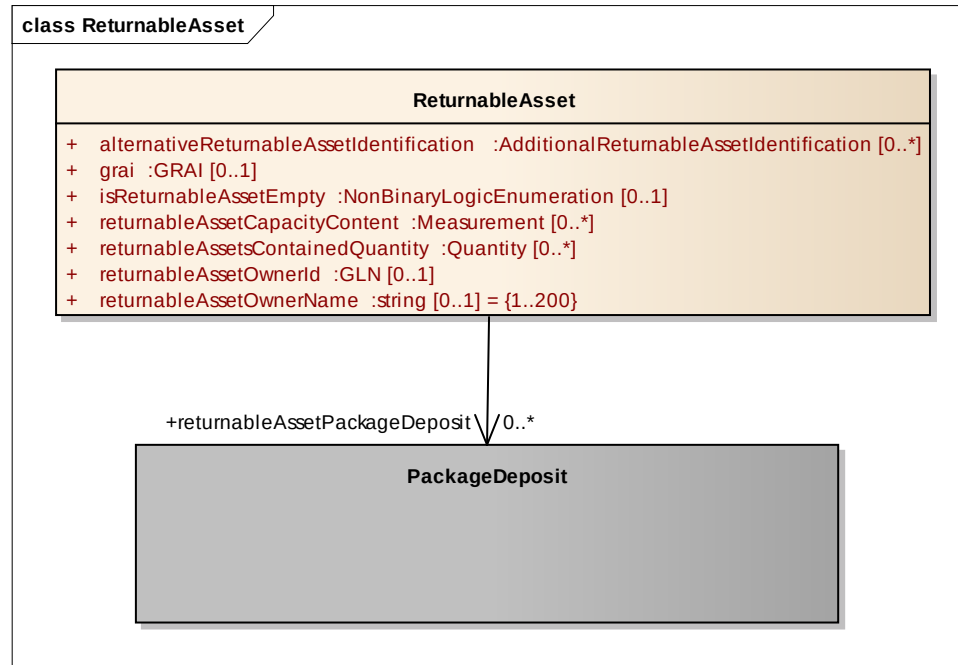
content	attribute / role	datatype /secondary class	multipl city	definition
OrganismClassific ation				Hierarchical system for grouping and naming types of living organisms.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	genus	string	0..1	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.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	rankBelowSpecies	string	0..1	Either the Sub-Species, Variety, Sub-Variety, Form, and/or Sub-Form of an organism. All are taxonomic rank below that of species. • A Sub-Species is a taxonomic rank subordinate to species. • A Variety will have an appearance distinct from other varieties, but will hybridize freely with other varieties of the same species (if brought into contact). Usually varieties will be geographically separate from each other. • A Sub-Variety is a subordinate variety, or a division of a variety. A Form usually designates a group with a noticeable but minor deviation. For instance, white-flowered forms of species that usually have coloured flowers can be named a "'f. alba'". It is recommended to place an Abbreviation at the beginning of the text to clarify to what type the text belongs. The recommended abbreviations are: • subspecies (Abbreviation not required for Animals) — subsp or ssp • varietas (variety) — var • subvarietas (sub-variety) — subvar • forma (form) — form or f • subforma (sub-forma) — subf
Attribute	species	string	0..1	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 a lower case Latin adjective or noun following a capitalized genus name, as in <i>Ananas comosus</i>, the pineapple, and <i>Equus caballus</i>, the horse.
OrganismClassific ationModule				Hierarchical system for grouping and naming types of living organisms.
Association		OrganismClassificati on	0..*	Hierarchical system for grouping and naming types of living organisms.

5.38. Packaging Information Module









content	attribute / role	datatype /secondary class	multi plicit y	definition
PackagingInform ationModule				Packaging information for a trade item.
Association		Packaging	0..*	Packaging information for a trade item.
Attribute	doPackagingMaterials ContainLatex	NonBinaryLogicEnu meration	0..1	Identifies if any of the trade item's packaging contains latex.
Attribute	numberOfPackagesFo rSetPiecesGTIN	nonNegativeInteger	0..1	The total number of separately packaged components comprising a single trade item.
Packaging				Details on packaging for a trade item.
Association		packagingDimensio n	0..1	Details on the dimensions of a packaging.
Association		PackageDeposit	0..*	Deposit information for packaging.

content	attribute / role	datatype /secondary class	multi plicity	definition
Association		PackagingMaterial	0..*	Details on packaging material for a trade item's packaging.
Association		ReturnableAsset	0..*	Returnable asset information for a trade item's packaging.
Association	avpList	GS1_AttributeValue PairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	averageDistanceTravelledToPointOfPackagingCode	AverageDistanceTo PointOfPackagingCode	0..1	The average distance each packaging material travelled from the packaging material supplier to the point where the product and packaging are combined to form the trade item.
Attribute	doesPackagingHaveWheels	NonBinaryLogicEnumeration	0..1	Indicates if packaging has wheels to facilitate its transportation. Wheels can be permanently fixed or could be detachable. This could apply to a number of packaging types such as trays, cages, boxes, etc.
Attribute	isPackagingExemptFromRefuseObligation	NonBinaryLogicEnumeration	0..1	An indication for the packaging of this item that there exists an exemption from refuse (disposal) obligations.
Attribute	isPackagingReturnable	NonBinaryLogicEnumeration	0..1	Trade item has returnable packaging. True equals package can be returned. This attribute applies to returnable packaging with or without deposit.
Attribute	isPackagingSuitableForAirShipment	NonBinaryLogicEnumeration	0..1	Determines whether or not the packaging is suitable for air shipment for passenger or cargo for example has it been air pressure tested.
Attribute	isRadioFrequencyIDOnPackaging	boolean	0..1	Indicates that the packaging of the trade item is tagged with a Radio Frequency ID.
Attribute	packagingFeatureCode	PackagingFeatureCode	0..*	A packaging feature that facilitates the usage of the product by the consumer. Features do not affect the core composition of the packaging type nor modify its usage.
Attribute	packagingFunctionCode	PackagingFunctionCode	0..*	A code that is used to identify specific functionality for packaging resulting from specific processes or features present in the packaging type. These additional functionalities are not dependant on the packaging type and maybe applied to multiple different types.
Attribute	packagingLevel	nonNegativeInteger	0..1	Identifies the hierarchical level of the packaging element, i.e. 1,2,3. For example: a bottle in a cardboard box displayed on a shelf. The level 1 hierarchical level is the bottle (plastic or glass), the 2 level would be the box (cardboard), and the 3 level would be the film around the pallet.
Attribute	packagingOwnerIdentification	GLN	0..1	The GLN of the owner of the packaging.

content	attribute / role	datatype /secondary class	multi plicity	definition
Attribute	packagingOwnerName	string	0..1	The name of the owner of the packaging.
Attribute	packagingRecyclingProcessTypeCode	PackagingRecyclingProcessTypeCode	0..*	The process the packaging could undertake for recyclable & sustainability programs. Examples COMPOSTABLE, ENERGY_RECOVERABLE, REUSABLE.
Attribute	packagingRecyclingSchemeCode	PackagingRecyclingSchemeCode	0..*	A code determining the recycling scheme the packaging of this trade item will fall within when recycled. Applies to recyclable packaging with or without deposit.
Attribute	packagingRefundObligationName	string	0..*	The refund obligation that the packaging of this item is subject to for example the DPG = Deutsche Pfandsystem GmbH which is a refund obligation for one way beverage packaging for beer, sparkling soft drinks and mineral water.
Attribute	packagingRefuseObligationName	string	0..*	The name of the specific refuse obligation that may apply to packaging or that the packaging may be exempt from for example ARA.
Attribute	packagingShapeCode	PackagingShapeCode	0..1	A code depicting the shape of a package for example cone.
Attribute	packagingSustainabilityFeatureCode	SustainabilityFeatureCode	0..*	A feature of the packaging that contributes to sustainability initiatives for example that it is made from renewable materials.
Attribute	packagingTermsAndConditionsCode	PackagingTermsAndConditionsCode	0..*	Indicates if the packaging given in the described packaging configuration is a rented, exchangeable, against deposit or one way/not reusable.
Attribute	packagingTypeCode	PackageTypeCode	0..1	The dominant means used to transport, store, handle or display the trade item as defined by the data source. This packaging is not used to describe any manufacturing process. Data recipients can use this data for: • Space Planning • Data Accuracy (Tolerances) • Supply Chain processes • Recycling process (In combination with packaging materials) • Product buying/procurement decisions • Tax calculations/fees/duties calculation
Attribute	packagingTypeDescription	Description200	0..*	System generated text description of the type of packaging used for the trade item.
Attribute	packagingWeight	Measurement	0..1	Used to identify the measurement of the packaging weight of the trade item

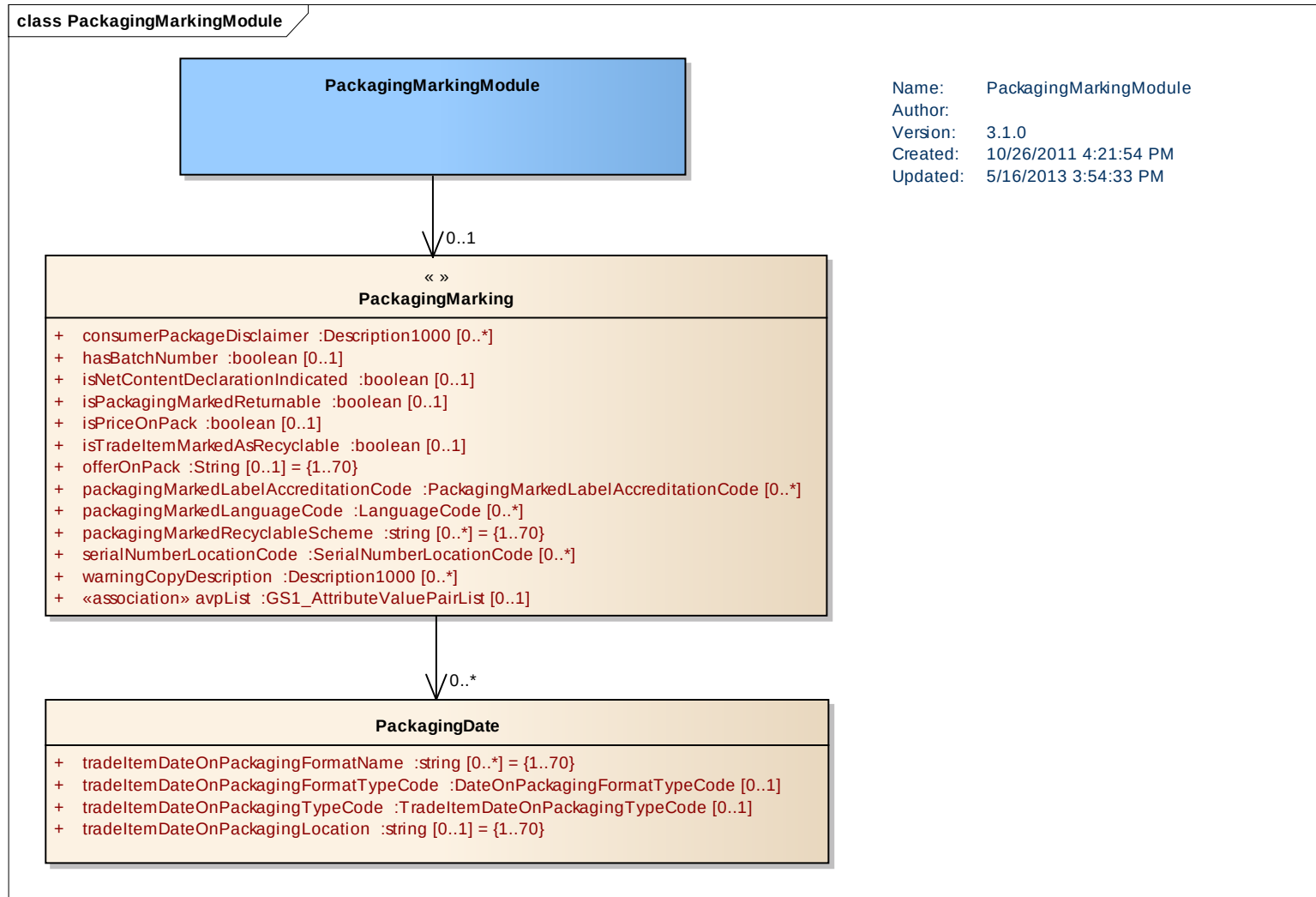
content	attribute / role	datatype /secondary class	multi plicity	definition
Attribute	platformTermsAndConditionsCode	platformTermsAndConditionsCode	0..1	Indicates if the platform in the prescribed pallet configuration is rented, exchangeable, against deposit or one way (not reusable).
Attribute	platformTypeCode	PlatformTypeCode	0..1	Indicates whether the described despatch unit is delivered on a pallet/platform and on which type of platform. If the despatch unit is delivered on a platform, the platform type must be given here. The range of the platform types/codes is listed in code sets.
Attribute	shippingContainerQuantityDescription	Description200	0..*	The quantity of the contents of the shipping container as described on the outside of the shipping container, for example 100 .5 oz envelopes.
Attribute	usableProductVolume	Measurement	0..1	The cubic space occupied by the product excluding the packaging. This is measured as the smallest theoretical space the product will fit into. For example: Liquid - a 12 fluid ounce soda has a product volume of 12 fluid ounces or 21.7 cubic inches within the can. Solids by count- a 50ct bottle of tablets (where 1000 tablets requires 1000 cubic centimetre has a product volume of 50 cubic centimetres or 3.1cubic inches, Solids by weight-a 5kg bag of sugar (with a bulk density of .849 g/cubic centimetres has a product volume of 5.889 cubic centimetres or 359.4 cubic inches.
CompositeMaterialDetail				Details on the materials that make up a composite material.
Attribute	packagingMaterialTypeCode	PackagingMaterialTypeCode	1..1	The materials used for the packaging of the trade item for example glass or plastic. This material information can be used by data recipients for: - o Tax calculations/fees/duties calculation - o Carbon footprint calculations/estimations (resource optimisation) - o to determine the material used.
Attribute	packagingMaterialCompositionQuantity	Measurement	0..*	The quantity of the packaging material of the trade item. Can be weight, volume or surface, can vary by country.
Attribute	packagingMaterialThickness	Measurement	0..1	The thickness of a packaging material.

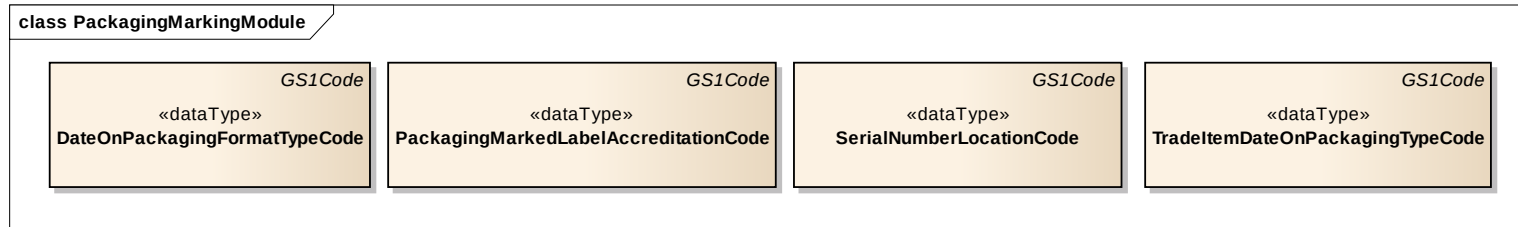
content	attribute / role	datatype /secondary class	multi plicit y	definition
PackagingMaterial				Information on any material used for packaging.
Association		CompositeMaterialDetail	0..*	Details on the materials that make up a composite material.
Attribute	packagingMaterialTypeCode	PackagingMaterialTypeCode	1..1	The materials used for the packaging of the trade item for example glass or plastic. This material information can be used by data recipients for: - o Tax calculations/fees/duties calculation - o Carbon footprint calculations/estimations (resource optimisation) - o to determine the material used.
Attribute	isPackagingMaterialRecoverable	NonBinaryLogicEnumeration	0..1	Determines whether packaging material is recoverable. Recoverable materials are those which are capable of being reused or returned to use in the form of raw materials
Attribute	isPrimaryMaterial	NonBinaryLogicEnumeration	0..1	Specifies the primary or majority material in a composite material used for packaging.
Attribute	packagingMaterialAppliedProcessCode	PackagingMaterialAppliedProcessCode	0..*	The processes applied to the material or used in the manufacturing of the material to modify/enhance its properties.
Attribute	packagingCompositeMaterialDescription	Description70	0..*	A description of any composite material used in packaging. A composite material is a combination of different material.
Attribute	packagingMaterialCoatingTypeDescription	Description70	0..*	Specifies any coating material that is applied to the packaging material.
Attribute	packagingMaterialCompositionQuantity	Measurement	0..*	The quantity of the packaging material of the trade item. Can be weight, volume or surface, can vary by country.
Attribute	packagingMaterialLaunchDateTime	dateTime	0..1	The first date that a change in packaging material has occurred. This change does not result in a new GTIN at any level of the item hierarchy, such as, an increase or decrease in packaging material and is delivered to the retailer.
Attribute	packagingMaterialPerformanceCode	PackagingMaterialPerformanceCode	0..1	A status of packaging performance based on testing to minimize damage to Trade Items for example 3 (improved packaging performance).
Attribute	packagingMaterialThickness	Measurement	0..1	The thickness of a packaging material.
PackageDeposit				Deposit information for a package.
Association	returnablePackageDes	TargetMarket	0..*	The geographic region associated with the returnable

content	attribute / role	datatype /secondary class	multi plicity	definition
	positRegion			package deposit amount.
Attribute	depositValueEffectiveDateTime	dateTime	0..1	First date that the deposit value is valid for the deposit code.
Attribute	depositValueEndDateTime	dateTime	0..1	Last date that the deposit value in the currency is valid for the deposit code.
Attribute	returnablePackageDepositAmount	Amount	0..1	The monetary amount for the individual returnable package.
Attribute	returnablePackageDepositIdentification	Identifier	0..1	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.
PackagingDimension				Details on the dimensions of a packaging.
Attribute	packagingDepth	Measurement	0..1	The depth of packaging as measured according to the GDSN Package Measurement Rules.
Attribute	packagingHeight	Measurement	0..1	The height of packaging as measured according to the GDSN Package Measurement Rules.
Attribute	packagingWidth	Measurement	0..1	The width of packaging as measured according to the GDSN Package Measurement Rules.
ReturnableAsset				Returnable asset information for a package.
Association	returnableAssetPackageDeposit	PackageDeposit	0..*	Package deposit information for a package.
Attribute	alternativeReturnableAssetIdentification	AdditionalReturnableAssetIdentification	0..*	An additional returnable asset identification type. Allowed code values are specified in GS1 Code List AdditionalReturnableAssetIdentificationTypeCode.
Attribute	grai	GRAI	0..1	The GS1 Identification Key used to identify Returnable Assets. The key comprises a GS1 Company Prefix, Asset Type, Check Digit, and optional serial number.
Attribute	isReturnableAssetEmpty	NonBinaryLogicEnumeration	0..1	Determines whether the returnable asset is empty.
Attribute	returnableAssetCapacityContent	Measurement	0..*	A measurement of the potential capacity of a returnable asset for example how many bottles can fit into a crate. This is not the content for the full packaging but rather how much the packaging can contain.

content	attribute / role	datatype /secondary class	multi plicit y	definition
Attribute	returnableAssetsContainedQuantity	Quantity	0..*	The number of returnable assets contained that are allocated to the full returnable item identified by the GTIN of the returnable asset. An example would be 6 bottles of beer in a six pack (Trade Item).
Attribute	returnableAssetOwnerId	GLN	0..1	The GLN of the owner of a returnable asset.
Attribute	returnableAssetOwnerName	string	0..1	The name of the owner of a returnable asset.

5.39. Packaging Marking Module



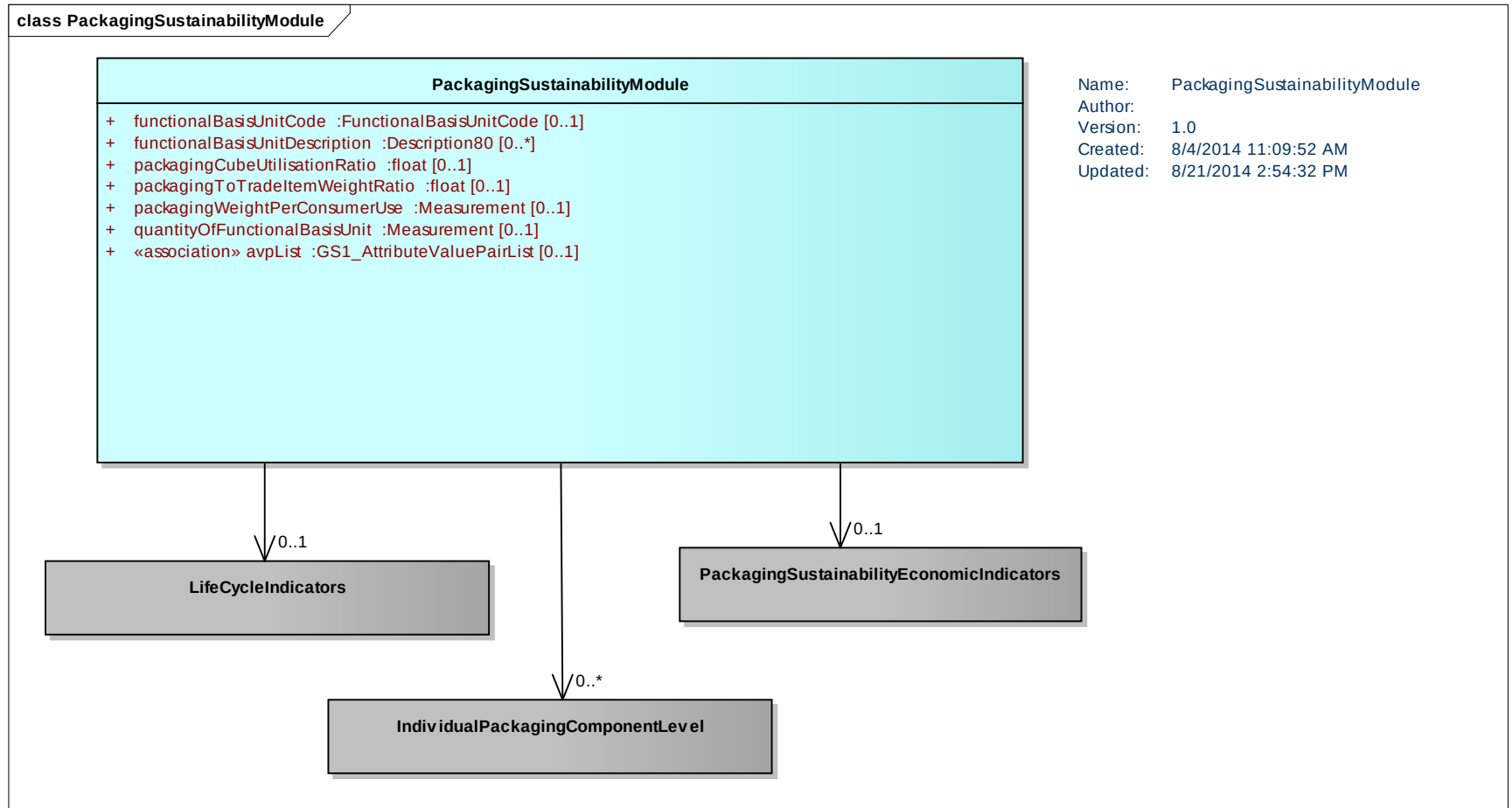


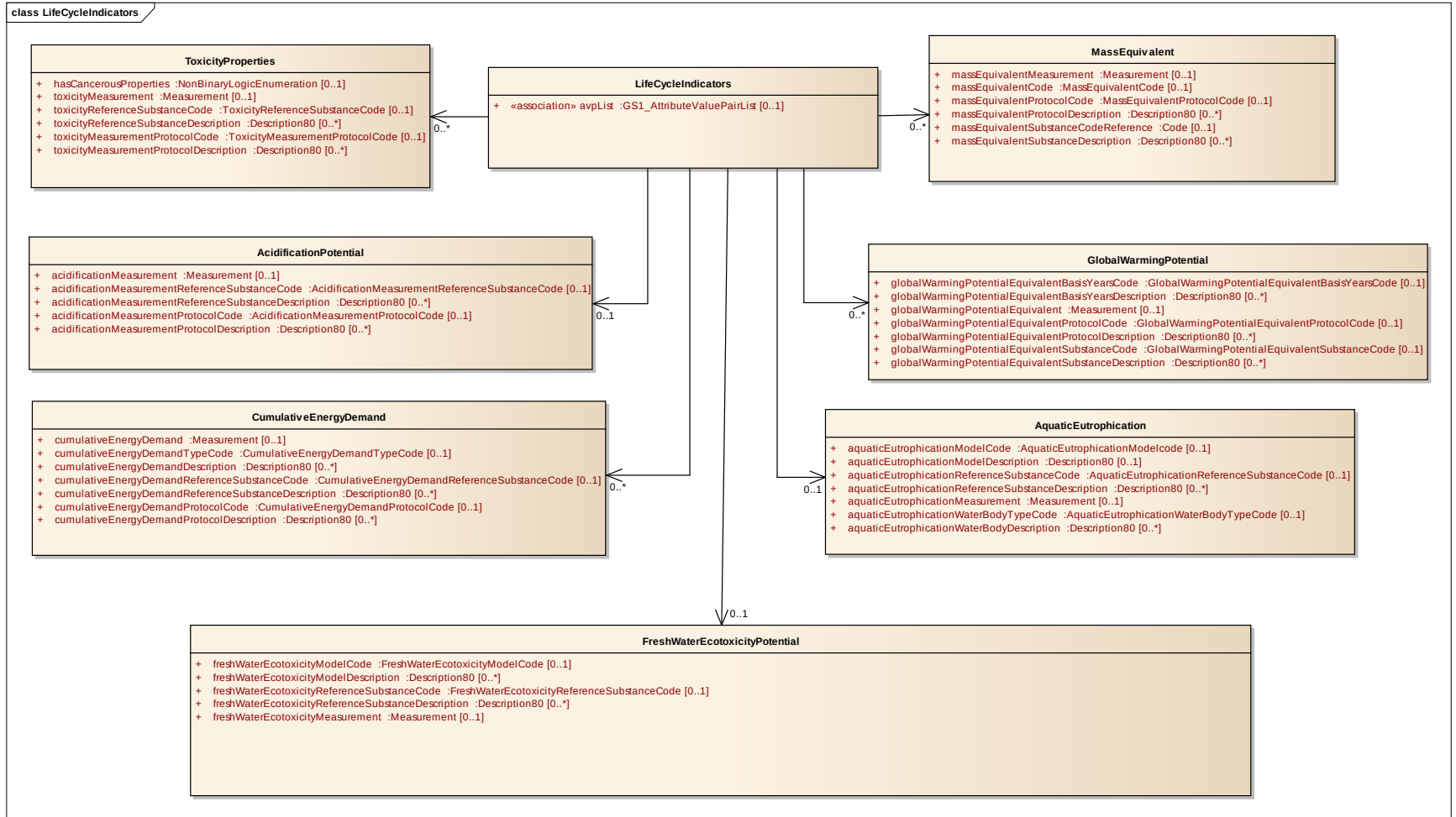
content	attribute / role	datatype /secondary class	multiplicity	definition
PackagingDate				Details on date markings on the packaging of the trade item.
Attribute	tradeItemDateOnPackagingFormatName	string	0..*	The format that the date is printed on the package for example YYYY: year, YY: year in century, MM: month number, MMM: month short name, DD: day of month, D: day of week (Monday=1), ' ': space and hyphen.
Attribute	tradeItemDateOnPackagingFormatTypeCode	DateOnPackagingFormatTypeCode	0..1	A category of date formats for example calendar or ordinal date.
Attribute	tradeItemDateOnPackagingTypeCode	TradeItemDateOnPackagingTypeCode	0..1	Indicates the type of date marked on the packaging for example Best Before Date.
Attribute	tradeItemDateOnPackagingLocation	string	0..1	Free text detailing the location of the date marking on the packaging.
PackagingMarkingModule				A module containing details on markings on the packaging of the trade item for example dates, environment.
		PackagingMarking	0..1	Details on markings on the packaging of the trade item for example dates, environment.
PackagingMarking				Details on markings on the packaging of the trade item for example dates, environment.
Association		PackagingDate	0..*	Details on date markings on the packaging of the trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	consumerPackageDisclaimer	Description1000	0..*	Additional information that should be used in advertising and in displaying.

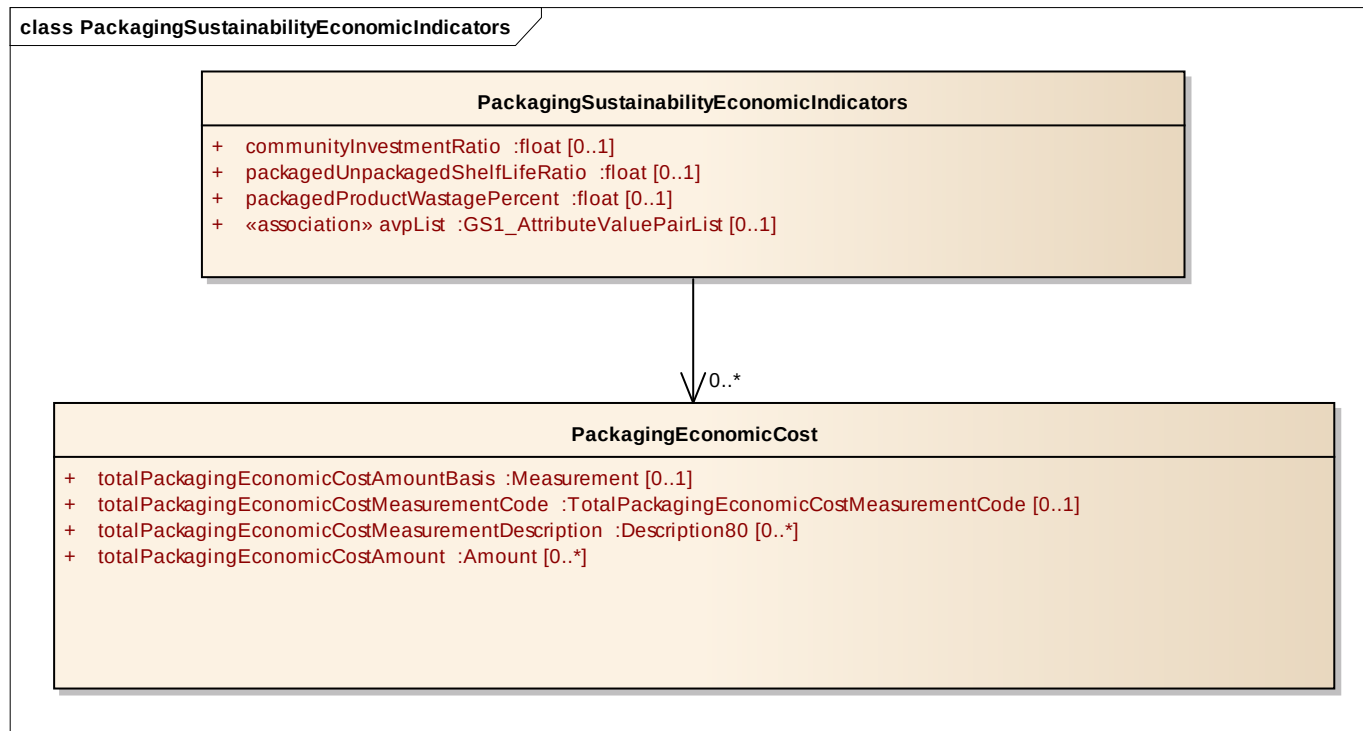
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	hasBatchNumber	boolean	0..1	Indication whether the base trade item is batch or lot number requested by law, not batch or lot number requested by law but batch or lot number allocated, or not batch or lot number allocated. A batch or lot number is a manufacturer assigned code used to identify a trade item's trade item on batch or lot. Differs from Serial Number which is a manufacturer assigned code during the trade item on cycle to identify a unique trade item.
Attribute	isNetContentDeclarationIndicated	boolean	0..1	This field is used to facilitate local business rules where a declaration of a trade item's net content is not on the product label e.g.UK under 50g.legislation.
Attribute	isPackagingMarkedReturnable	boolean	0..1	Trade item has returnable packaging. This is a yes/no (Boolean) where yes equals package can be returned. Attribute applies to returnable packaging with or without deposit.
Attribute	isPriceOnPack	boolean	0..1	Indication of whether there is a retail price physically on or attached to the trade item packaging of the trade item by the manufacturer or information provider.
Attribute	isTradeItemMarkedAsRecyclable	boolean	0..1	Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies.
Attribute	offerOnPack	string	0..1	Contains details of any on pack product offer (consumer or traded).
Attribute	packagingMarkedLabelAccreditationCode	PackagingMarkedLabelAccreditationCode	0..*	A marking that the trade item received recognition, endorsement, certification by following guidelines by the label issuing agency. This does not represent claims for regulatory purposes on products such as free from markings.
Attribute	packagingMarkedLanguageCode	LanguageCode	0..*	The language in which text on the packaging is stated.
Attribute	packagingMarkedRecyclableScheme	string	0..*	The package of this GTIN is marked to indicate under which scheme it is recyclable. Applies to recyclable packaging with or without deposit. Examples: Aluminium can be marked as recyclable.

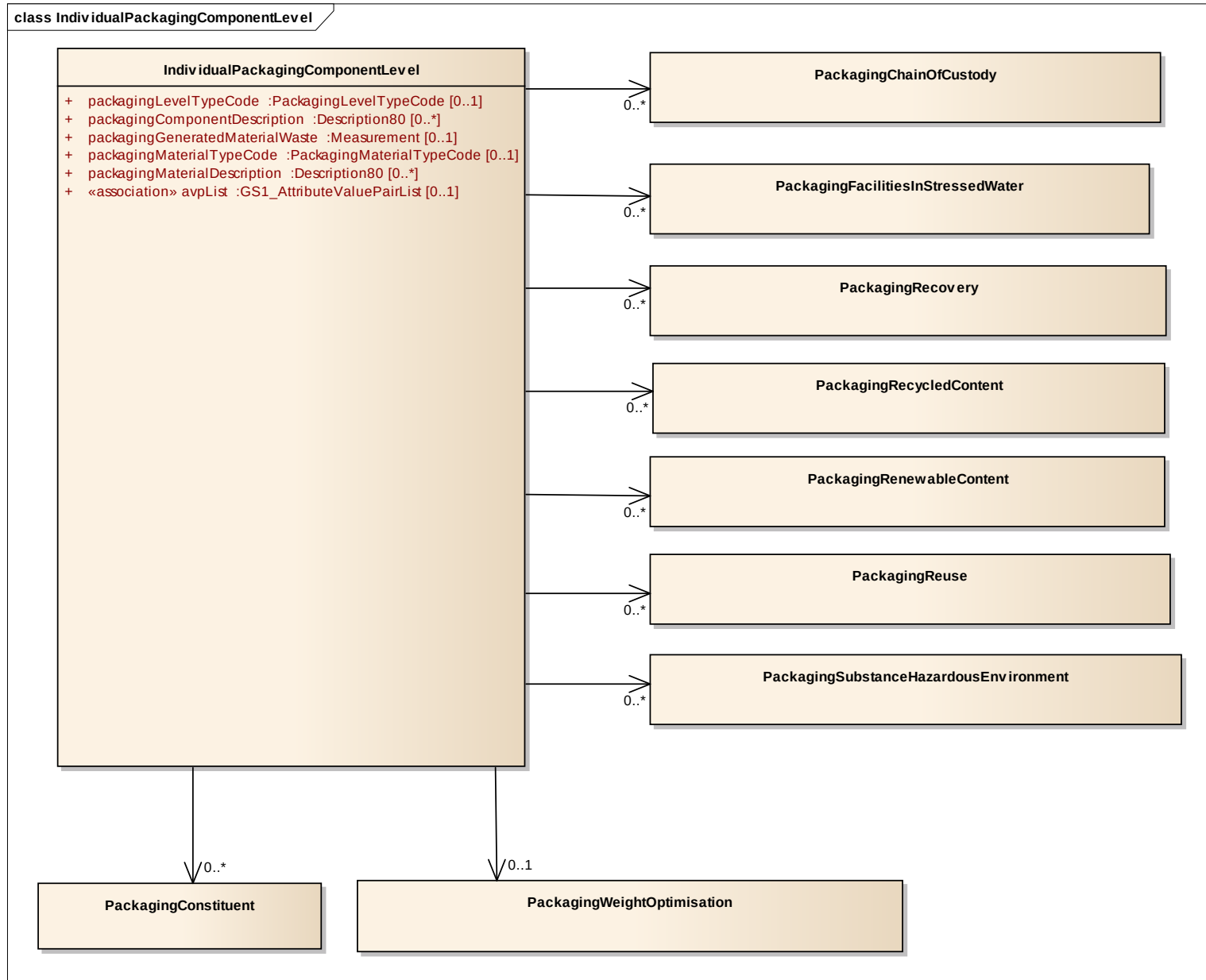
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	serialNumberLocationCode	SerialNumberLocationCode	0..*	The location on the item or packaging of a serial number. A serial number is a code, numeric or alphanumeric, assigned to an individual instance of an entity for its lifetime for example a Microscope model AC-2 with serial number 1234568 and microscope model AC-2 with serial number 1234569.
Attribute	warningCopyDescription	Description1000	0..*	Warning information is additional information that outlines special requirements, warning and caution information printed on the package.

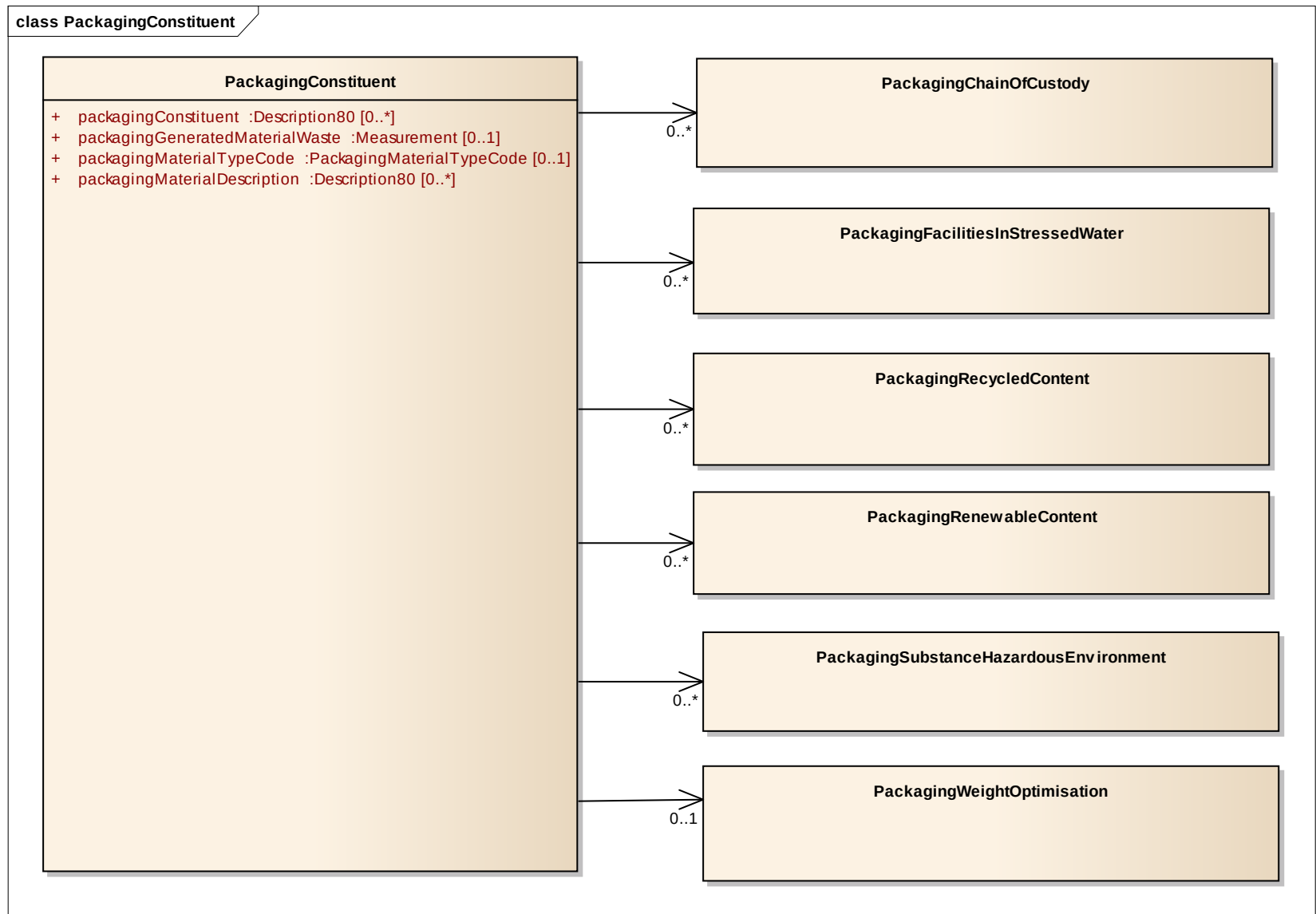
5.40. Packaging Sustainability Module











class Packaging_Sustainability_Module_Classes

PackagingChainOfCustody

- + packagingChainOfCustodyEventSequenceNumber :nonNegativeInteger [0..1]
- + packagingChainOfCustodySourceCertifiedCode :PackagingChainOfCustodySourceCertifiedCode [0..1]
- + sourceCertificationSystemProtocolCode :SourceCertificationSystemProtocolCode [0..1]
- + sourceCertificationSystemProtocolDescription :Description80 [0..*]

PackagingFacilitiesInStressedWater

- + facilitiesInStressedWaterAreaPercent :float [0..1]
- + facilitiesInStressedWaterAreaCalculationMethod :Description200 [0..*]
- + numberOfFacilitiesInStressedWaterArea :nonNegativeInteger [0..1]

PackagingRecovery

- + doesPackagingRecoveryRateTypeCodeMeetTheStandard :NonBinaryLogicEnumeration [0..1]
- + packagingRecoveryRate :float [0..1]
- + packagingRecoveryRateDescription :Description80 [0..*]
- + packagingRecoveryRateTypeCode :PackagingRecoveryRateTypeCode [0..1]
- + totalPackagingRecoveryRate :float [0..1]

PackagingRecycledContent

- + packagingRecycledContentRatio :float [0..1]
- + packagingRecycledContentTypeCode :PackagingRecycledContentTypeCode [0..1]
- + packagingRecycledContentDescription :Description80 [0..*]

PackagingRenewableContent

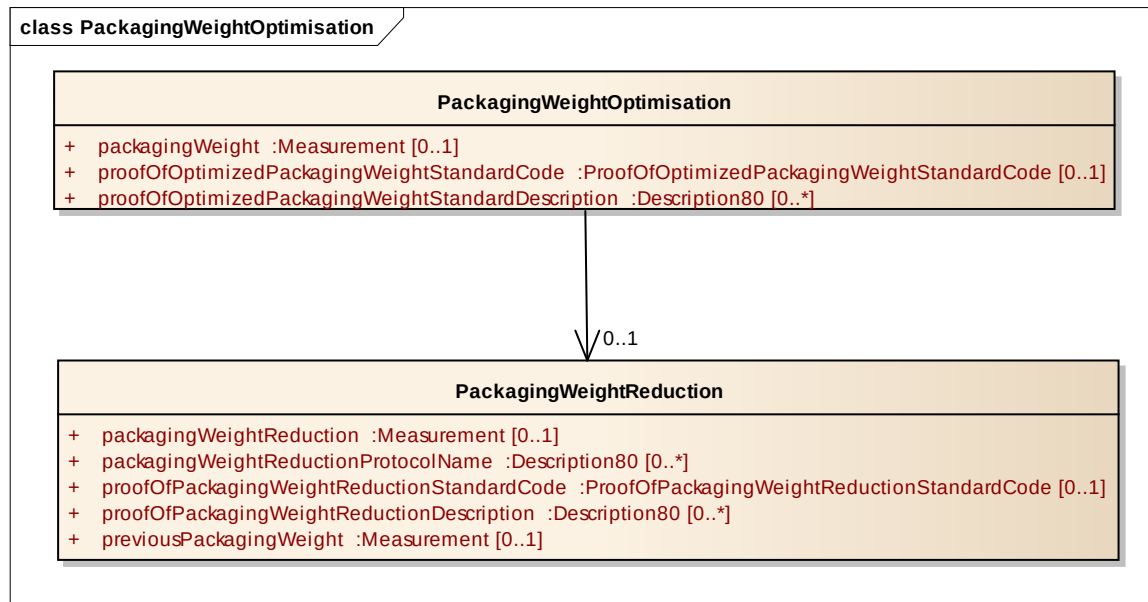
- + packagingRenewableContentRatio :float [0..1]
- + packagingRenewableContentTypeCode :PackagingRenewableContentTypeCode [0..1]
- + packagingRenewableContentDescription :Description80 [0..*]

PackagingReuse

- + numberOfCyclesPriorToWithdrawal :nonNegativeInteger [0..1]
- + packagingReuseRate :float [0..1]
- + packagingReusabilityStandardCode :PackagingReusabilityStandardCode [0..1]
- + packagingReusabilityStandardDescription :Description80 [0..*]

PackagingSubstanceHazardousEnvironment

- + haveYouMinimizedHazardousSubstance :NonBinaryLogicEnumeration [0..1]
- + hazardousSubstancesMinimizationCode :HazardousSubstancesMinimizationCode [0..1]
- + relevantSupportingSubstanceHazardousDocumentation :Description200 [0..*]



class Code			
«data Type» AcidificationMeasurementProtocolCode	«data Type» AcidificationMeasurementReferenceSubstanceCode	«data Type» AquaticEutrophicationModelCode	«data Type» AquaticEutrophicationReferenceSubstanceCode
«data Type» AquaticEutrophicationWaterBodyTypeCode	«data Type» CumulativeEnergyDemandProtocolCode	«data Type» CumulativeEnergyDemandReferenceSubstanceCode	«data Type» CumulativeEnergyDemandTypeCode
«data Type» FreshWaterEcotoxicityModelCode	«data Type» FreshWaterEcotoxicityReferenceSubstanceCode	«data Type» FunctionalBasisUnitCode	«data Type» GlobalWarmingPotentialEquivalentProtocolCode
«data Type» GlobalWarmingPotentialEquivalentSubstanceCode	«data Type» GlobalWarmingPotentialEquivalentBasisYearsCode	«data Type» HazardousSubstancesMinimizationCode	«data Type» MassEquivalentCode
«data Type» MassEquivalentProtocolCode	«data Type» PackagingChainOfCustodySourceCertifiedCode	«data Type» PackagingLevelTypeCode	
«data Type» PackagingRecoveryRateTypeCode	«data Type» PackagingRecycledContentTypeCode	«data Type» PackagingRenewableContentTypeCode	«data Type» PackagingReusabilityStandardCode
«data Type» ProofOfOptimizedPackagingWeightStandardCode	«data Type» ProofOfPackagingWeightReductionStandardCode	«data Type» SourceCertificationSystemProtocolCode	«data Type» TotalPackagingEconomicCostMeasurementCode
«data Type» ToxicityMeasurementProtocolCode	«data Type» ToxicityReferenceSubstanceCode		

content	attribute / role	datatype /secondary class	multiplicity	definition
AcidificationPotential				Acidification Potential is the potential of a chemical emission to acidify ecosystems. Emissions of acidifying substances strongly depend on industrial practice and environmental legislation.
attribute	acidificationMeasurement	Measurement	0..1	The measurement of acidification potential.
attribute	acidificationMeasurementReferenceSubstanceCode	Acidification MeasurementReferenceSubstanceCode	0..1	The reference substance used to represent the potential to acidify ecosystems.
attribute	acidificationMeasurementReferenceSubstanceDescription	Description 80	0..*	The reference substance description used to represent the potential to acidify ecosystems.
attribute	acidificationMeasurementProtocolCode	Acidification MeasurementProtocolCode	0..1	The reference protocol used to represent the potential to acidify ecosystems.
attribute	acidificationMeasurementProtocolDescription	Description 80	0..*	The reference protocol description used to represent the potential to acidify ecosystems.
AquaticEutrophication				Aquatic Eutrophication occurs when excessive amounts of nutrients reach freshwater systems or oceans. Algae bloom may result and fish may disappear. Whereas phosphorous is mainly responsible for eutrophication in freshwater systems, nitrogen is mainly responsible for eutrophication in ocean water bodies.
attribute	aquaticEutrophicationModelCode	AquaticEutrophicationModelcode	0..1	The model determining the degree of aquatic eutrophication
attribute	aquaticEutrophicationModelDescription	Description 80	0..1	The model description determining the degree of aquatic eutrophication
attribute	aquaticEutrophicationReferenceSubstanceCode	AquaticEutrophicationReferenceSubstanceCode	0..1	The reference substance used to represent aquatic eutrophication potential.
attribute	aquaticEutrophicationReferenceSubstanceDescription	Description 80	0..*	The reference substance used to represent aquatic eutrophication potential.
attribute	aquaticEutrophicationMeasurement	Measurement	0..1	The measurement of Aquatic Eutrophication per functional unit.
attribute	aquaticEutrophicationWaterBodyTypeCode	AquaticEutrophicationWaterBodyTypeCode	0..1	The type of water body that aquatic eutrophication is being measured for.

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	aquaticEutrophication WaterBodyDescription	Description 80	0..*	The description of water body that aquatic eutrophication is being measured for.
CumulativeEnergyDemand				Provides the cumulative energy demand information details.
attribute	cumulativeEnergyDemand	Measurement	0..1	CED is a statement of the entire energy demand for a given product or service composed by a renewable part (CEDR) and a non-renewable part (CEDNR).
attribute	cumulativeEnergyDemandTypeCode	Cumulative EnergyDemand andTypeCode	0..1	The type of cumulative energy demand that is being measured for.
attribute	cumulativeEnergyDemandDescription	Description 80	0..*	The description of cumulative energy demand that is being measured for.
attribute	cumulativeEnergyDemandReferenceSubstanceCode	Cumulative EnergyDemand andReference SubstanceCode	0..1	The reference substance used to represent cumulative energy demand.
attribute	cumulativeEnergyDemandReferenceSubstanceDescription	Description 80	0..*	The reference substance description used to represent cumulative energy demand.
attribute	cumulativeEnergyDemandProtocolCode	Cumulative EnergyDemand andProtocol Code	0..1	The reference protocol used to represent the potential to cumulative energy demand.
attribute	cumulativeEnergyDemandProtocolDescription	Description 80	0..*	The reference protocol description used to represent the potential to cumulative energy demand.
FreshWaterEcotoxicityPotential				Provides the freshwater ecotoxicity potential information.
attribute	freshWaterEcotoxicityModelCode	FreshWater Ecotoxicity ModelCode	0..1	The model used to determine freshwater ecotoxicity.
attribute	freshWaterEcotoxicityModelDescription	Description 80	0..*	The model description used to determine freshwater ecotoxicity.
attribute	freshWaterEcotoxicityReferenceSubstanceCode	FreshWater Ecotoxicity ReferenceSub stanceCode	0..1	The reference substance used to represent freshwater ecotoxicity.
attribute	freshWaterEcotoxicityReferenceSubstanceDescription	Description 80	0..*	The reference substance description used to represent freshwater ecotoxicity.

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	freshWaterEcotoxicity Measurement	Measurement	0..1	The measurement of freshwater ecotoxicity according to the following formula: kg [chemical reference] eq / FU.
GlobalWarmingPotential				Provides the global warming potential information.
attribute	globalwarmingPotentialEquivalentBasisYearsCode	GlobalWarmingPotentialEquivalentBasisYearsCode	0..1	The time perspective over which global warming potential is considered (20, 100, 500 years). Use the characterization factors of the 4th assessment report of the Intergovernmental Panel on Climate Change (IPCC). A 100 year time perspective is recommended. The time perspective chosen should always be communicated together with the metric.
attribute	globalwarmingPotentialEquivalentBasisYearsDescription	Description 80	0..*	The time perspective description over which global warming potential is considered. Use the characterization factors of the 4th assessment report of the Intergovernmental Panel on Climate Change (IPCC). A 100 year time perspective is recommended. The time perspective chosen should always be communicated together with the metric.
attribute	globalwarmingPotentialEquivalent	Measurement	0..1	The associated mass of CO2 equivalents associated with the Functional Unit.
attribute	globalwarmingPotentialEquivalentProtocolCode	GlobalWarmingPotentialEquivalentProtocolCode	0..1	The reference protocol used to represent the potential to global warming.
attribute	globalwarmingPotentialEquivalentProtocolDescription	Description 80	0..*	The reference protocol description used to represent the potential to global warming.
attribute	globalwarmingPotentialEquivalentSubstanceCode	GlobalWarmingPotentialEquivalentSubstanceCode	0..1	The reference substance used to represent the potential to global warming.
attribute	globalwarmingPotentialEquivalentSubstanceDescription	Description 80	0..*	The reference protocol description used to represent the potential to global warming.
IndividualPackagingComponentLevel				Provides the individual packaging components details.
Association		Packaging RecycledContent	0..*	Provides the recycled content information.
Association		Packaging ChainOfCustody	0..*	Provides the chain of custody information.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association		PackagingFacilitiesInStressedWater	0..*	Provides the facilities in stress water information.
Association		PackagingRecovery	0..*	Provides the packaging recovery information
Association		PackagingConstituent	0..*	Provides the packaging constituent information.
Association		PackagingReuse	0..*	Provides the packaging reuse information
Association		PackagingSubstanceHazardousEnvironment	0..*	Provides the substance hazardous environment information.
Association		PackagingWeightOptimisation	0..1	Provides the packaging weight optimisation information.
Association		PackagingRenewableContent	0..*	Provides the renewable content information
attribute	packagingLevelTypeCode	PackagingLevelTypeCode	0..1	Provides the packaging level.
attribute	packagingComponentDescription	Description80	0..*	Part of packaging that can be separated by hand or by using simple physical means (EN 13427, ISO/DIS 18601), for example a packaging film.
attribute	packagingGeneratedMaterialWaste	Measurement	0..1	The mass of material waste generated during the production and transport of packaging materials, packaging constituents, packaging components or packaging systems destined to final disposal, i.e. landfill or incineration without heat recovery.
attribute	packagingMaterialTypeCode	PackagingMaterialTypeCode	0..1	A code that provides the packaging material.
attribute	packagingMaterialDescription	Description80	0..*	A description of the packaging material.
attribute	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
LifeCycleIndicators				Provides the environmental indicator information.
Association		GlobalWarmingPotential	0..*	Provides the global warming potential information.
Association		AcidificationPotential	0..1	Provides the acidification potential information.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association		AquaticEutrophication	0..1	Provides the aquatic eutrophication information.
Association		MassEquivalent	0..*	Provides the mass equivalent information.
Association		ToxicityProperties	0..*	Provides the toxicity properties information.
Association		FreshWaterEcotoxicityPotential	0..1	Provides the freshwater ecotoxicity potential information.
Association		CumulativeEnergyDemand	0..*	Provides the cumulative energy demand information.
attribute	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
MassEquivalent				Provides the mass equivalent information.
attribute	massEquivalentMeasurement	Measurement	0..1	The measurement for the mass equivalent code.
attribute	massEquivalentCode	MassEquivalentCode	0..1	The type of mass equivalent being measured.
attribute	massEquivalentProtocolCode	MassEquivalentProtocolCode	0..1	The protocol code related to the mass equivalent code. Based On MassEquivalentCode, use one of following: • Mass Equivalent Fresh Water Consumption Protocol Code • Mass Equivalent Ionizing Radiation Human Protocol Code • Mass Equivalent Land Use Protocol Code • Mass Equivalent Nonrenewable Resource Depletion Protocol Code • Mass Equivalent Ozone Depletion Protocol Code • Mass Equivalent Particulate Respiratory Effects Protocol Code • Mass Equivalent Photochemical Ozone Creation Potential Protocol Code.
attribute	massEquivalentProtocolDescription	Description 80	0..*	The protocol description related to the mass equivalent code.
attribute	massEquivalentSubstanceCodeReference	Code	0..1	The substance code related to the mass equivalent code. Based On MassEquivalentCode, use one of following: • Mass Equivalent Fresh Water Consumption Substance Code • Mass Equivalent Ionizing Radiation Human Substance Code • Mass Equivalent Land Use Substance Code • Mass Equivalent Non Renewable Resource Depletion Substance Code • Mass Equivalent Ozone Depletion Reference Substance Code • Mass Equivalent Particulate Respiratory Effects Reference Substance Code.

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	massEquivalentSubstanceDescription	Description 80	0..*	The substance description related to the mass equivalent code
PackagingChainOfCustody				Provides the packaging chain of custody information.
attribute	packagingChainOfCustodyEventSequenceNumber	nonNegativeInteger	0..1	The linked set of organizations, from point of harvest or extraction to point of purchase, that have held legal ownership or physical control of raw materials or recycled materials, used in packaging constituents, packaging components, or packaging systems.
attribute	packagingChainOfCustodySourceCertifiedCode	PackagingChainOfCustodySourceCertifiedCode	0..1	A code that determines whether the source has been certified.
attribute	sourceCertificationSystemProtocolCode	SourceCertificationSystemProtocolCode	0..1	Provides the organisation(s) identification that certifies the source. (e.g. Forest Stewardship Council, Sustainable Forestry Initiative, Programme for Endorsement of Forest Certification.)
attribute	sourceCertificationSystemProtocolDescription	Description 80	0..*	Provides the organisation(s) identification that certifies the source. (e.g. Forest Stewardship Council, Sustainable Forestry Initiative, Programme for Endorsement of Forest Certification.)
PackagingConstituent				Provides the packaging constituent information.
Association		PackagingSubstanceHazardousEnvironment	0..*	Provides the substance hazardous environment information.
Association		PackagingChainOfCustody	0..*	Provides the chain of custody information.
Association		PackagingRenewableContent	0..*	Provides the renewable content information
Association		PackagingRecycledContent	0..*	Provides the recycled content information.
Association		PackagingFacilitiesInStressedWater	0..*	Provides the facilities in stress water information.
Association		PackagingWeightOptimisation	0..1	Provides the packaging weight optimisation information.
attribute	packagingConstituent	Description 80	0..*	Provides the packaging constituent

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	packagingGeneratedMaterialWaste	Measurement	0..1	The mass of material waste generated during the production and transport of packaging materials, packaging constituents, packaging components or packaging systems destined to final disposal, i.e. landfill or incineration without heat recovery
attribute	packagingMaterialTypeCode	PackagingMaterialTypeCode	0..1	A code that provides the packaging material.
attribute	packagingMaterialDescription	Description80	0..*	A description of the packaging material.
PackagingEconomicCost				Provides the packaging economic cost information.
attribute	totalPackagingEconomicCostAmountBasis	Measurement	0..1	The basis amount or quantity used to determine the packaging costs for example 1 kg, 1000 units, 1 year
attribute	totalPackagingEconomicCostMeasurementCode	TotalPackagingEconomicCostMeasurementCode	0..1	A code determining the packaging component, material, etc that is cost and being determined for.
attribute	totalPackagingEconomicCostMeasurementDescription	Description80	0..*	A description determining the packaging component, material, etc that is cost and being determined for.
attribute	totalPackagingEconomicCostAmount	Amount	0..*	The total cost of all materials, energy, equipment and direct labour used during the sourcing of raw, recycled and reused materials and the production, filling, transport and/or disposal of packaging materials, packaging components or units of packaging.
PackagingFacilitiesInStressedWater				Provides the ability to communicate information about production sites located in areas with conditions of water stress or scarcity.
attribute	facilitiesInStressedWaterAreaPercent	float	0..1	Percent of facilities owned by a single operator located in an area identified as a stressed or scarce water resource area.
attribute	facilitiesInStressedWaterAreaCalculationMethod	Description200	0..*	The approach or tool used to determine water stress or scarcity should be identified (e.g. Global Water Tool, ETH Water Scarcity Index).
attribute	numberOfFacilitiesInStressedWaterArea	nonNegativeInteger	0..1	The number of facilities involved with the production of packaging materials (including recycled materials), packaging constituents, packaging components or units of packaging and/or filling and sealing of units of packaging that operate in areas identified as stressed or scarce fresh water resource area.
PackagingRecovery				Provides the packaging recovery information.
attribute	doesPackagingRecoveryRateTypeCodeMeetTheStandard	NonBinaryLogicEnumeration	0..1	Determine if the packaging recovery rate meet the standard.
attribute	packagingRecoveryRate	float	0..1	The mass fraction or absolute mass of packaging recovered from all sources (commercial and residential) based on relevant waste management statistics.

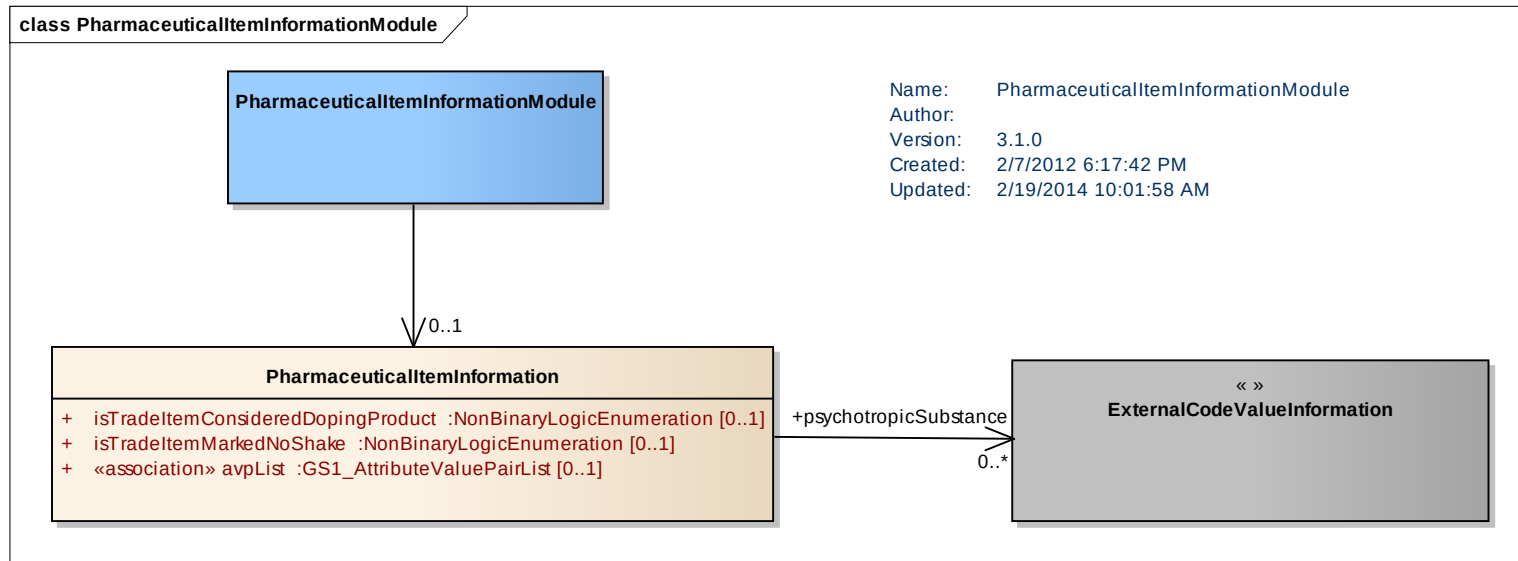
content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	packagingRecoveryRateDescription	Description 80	0..*	The description of the recovery applicable to the packaging.
attribute	packagingRecoveryRateTypeCode	Packaging RecoveryRateTypeCode	0..1	A code determining the type of recovery applicable to the packaging.
attribute	totalPackagingRecoveryRate	float	0..1	Expressed as cumulative sum of recovery rate by recovery method in % of total packaging weight [% wt.] placed on the market or as mass expressed by rate × total packaging weight put on the market.
PackagingRecycled Content				Provides the recycled content information
attribute	packagingRecycledContentRatio	float	0..1	The ratio of recycled material to total material used in packaging constituents, packaging components, or packaging systems
attribute	packagingRecycledContentTypeCode	Packaging RecycledContentTypeCode	0..1	The type of recycled content that is being measured for.
attribute	packagingRecycledContentDescription	Description 80	0..*	The description of recycled content that is being measured for.
PackagingRenewableContent				Provides the packaging renewable content information.
attribute	packagingRenewableContentRatio	float	0..1	The ratio of renewable material used to total material used in packaging constituents, components, units of packaging or packaging systems.
attribute	packagingRenewableContentTypeCode	Packaging RenewableContentTypeCode	0..1	The type of renewable content that is being measured for.
attribute	packagingRenewableContentDescription	Description 80	0..*	The description of renewable content that is being measured for.
PackagingReuse				Provides the packaging reuse information.
attribute	numberOfCyclesPriorToWithdrawal	nonNegativeInteger	0..1	Determines reusability in accordance with EN 13429 or ISO/DIS18603.
attribute	packagingReuseRate	float	0..1	The number of times packaging accomplishes the same use, rotation or trip for which it was conceived and designed within its life cycle. Demonstration of reusability must first be established in accordance with EN 13429 or ISO/DIS18603 once final.
attribute	packagingReusabilityStandardCode	Packaging ReusabilityStandardCode	0..1	The reusability standard used to determine packaging reuse rate.
attribute	packagingReusabilityStandardDescription	Description 80	0..*	The description for the reusability standard used to determine packaging reuse rate.

content	attribute / role	datatype /secondary class	multiplicity	definition
PackagingSubstanceHazardousEnvironment				Provides the packaging substance hazardous environment information.
attribute	haveYouMinimizedHazardousSubstance	NonBinaryLogicEnumeration	0..1	Meeting the requirements of EN 13428 or ISO 18602 on heavy metals and dangerous/hazardous substances.
attribute	hazardousSubstancesMinimizationCode	Hazardous Substances MinimizationCode	0..1	Assessment and minimization of substances, or mixtures, hazardous to the environment in packaging constituents, components, or systems that are at risk of entering the environment.
attribute	relevantSupportingSubstanceHazardousDocumentation	Description 200	0..*	This is a certificate of compliance with relevant legislation. So the metric is a simple yes qualified with supporting documentation or a no.
PackagingSustainabilityEconomicIndicators				Provides the packaging sustainability economic indicator information.
Association		PackagingEconomicCost	0..*	Provides the packaging economic cost information
attribute	communityInvestmentRatio	float	0..1	The value of investments made in community projects related to packaging such as recycling education programs or recycling infrastructure development over and above regulated requirements.
attribute	packagedUnpackagedShelfLifeRatio	float	0..1	The ratio of a product's shelf life in packaging to a product's shelf life without packaging.
attribute	packagedProductWastePercent	float	0..1	Cost of wasted goods expressed as a percentage of cost of goods sold per annum.
attribute	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
PackagingSustainabilityModule				Provides the packaging sustainability module information
Association		IndividualPackagingComponentLevel	0..*	Provides the packaging level details.
Association		LifeCycleIndicators	0..1	Provides the life cycle indicator information.
Association		PackagingSustainabilityEconomicIndicators	0..1	Provides the packaging sustainability economic information
attribute	functionalBasisUnitCode	FunctionalBasisUnitCode	0..1	Code of the functional basis unit.

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	functionalBasisUnitDescription	Description 80	0..*	Description of the functional basis unit.
attribute	packagingCubeUtilisationRatio	float	0..1	The overall volumetric measurement of packaging design efficiency. Expressed as the total volume of product in a pallet or other transport unit divided by either the volume of the transport unit or the space allotted to the transport unit, whichever is greater.
attribute	packagingToTradelte mWeightRatio	float	0..1	The ratio of the weight of all packaging material used to the weight of the product or functional unit delivered. The weight of all packaging components used in the packaging system per functional unit (i.e. per consumer use as expressed by e.g. per serving for food & beverages, per washing cycle for detergent.
attribute	packagingWeightPer ConsumerUse	Measurement	0..1	The weight of all packaging components used in the packaging system per consumer use.
attribute	quantityOfFunctional BasisUnit	Measurement	0..1	Quantity of the functional basis unit.
attribute	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
PackagingWeightOptimisation				Provides the packaging weight optimisation details.
Association		Packaging WeightReduction	0..1	Provides the packaging weight reduction information.
attribute	packagingWeight	Measurement	0..1	The weight and identity of a packaging constituent, component or system which changes hands in the supply chain.
attribute	proofOfOptimizedPackagingWeightStandardCode	ProofOfOptimizedPackagingWeightStandardCode	0..1	The demonstration that the packaging has been minimized by weight or volume in accordance with EN 13428 or ISO/DIS 18602.
attribute	proofOfOptimizedPackagingWeightStandardDescription	Description 80	0..*	The description for the proof of adequate packaging weight
PackagingWeightReduction				Provides the packaging weight reduction information.
attribute	packagingWeightReduction	Measurement	0..1	The reduction of packaging weight with regards to a previous reference state expressed as a percentage reduction or an absolute weight reduction [e.g. g or kg / packaging constituent, component or system].
attribute	packagingWeightReductionProtocolName	Description 80	0..*	The protocol name that the calculation is based on (i.e. packaging weight reduction should be calculated according to the protocol stipulated in GPPS 2.0).

content	attribute / role	datatype /secondary class	multiplicity	definition
attribute	proofOfPackagingWeightReductionStandardCode	ProofOfPackagingWeightReductionStandardCode	0..1	The standard for the proof of packaging weight reduction is based on.
attribute	proofOfPackagingWeightReductionDescription	Description 80	0..*	The description for the proof of packaging weight reduction is based on.
attribute	previousPackagingWeight	Measurement	0..1	The packaging weight of the previous product used to calculate the packaging weight reduction.
ToxicityProperties				Provides the toxicity properties information.
attribute	hasCancerousProperties	NonBinaryLogicEnumeration	0..1	The Toxicity, Cancer indicator evaluates potential cancer-related health outcomes that may occur due to the emissions associated with a given product or process.
attribute	toxicityMeasurement	Measurement	0..1	The amount of the cancerous substance per functional unit
attribute	toxicityReferenceSubstanceCode	ToxicityReferenceSubstanceCode	0..1	The reference substance or unit which is used to represent cancerous toxicity effects.
attribute	toxicityReferenceSubstanceDescription	Description 80	0..*	The reference substance description or unit which is used to represent cancerous toxicity effects.
attribute	toxicityMeasurementProtocolCode	ToxicityMeasurementProtocolCode	0..1	The protocol code used for the measurement.
attribute	toxicityMeasurementProtocolDescription	Description 80	0..*	The description of the protocol used for the measurement.

5.41. Pharmaceutical Item Information Module

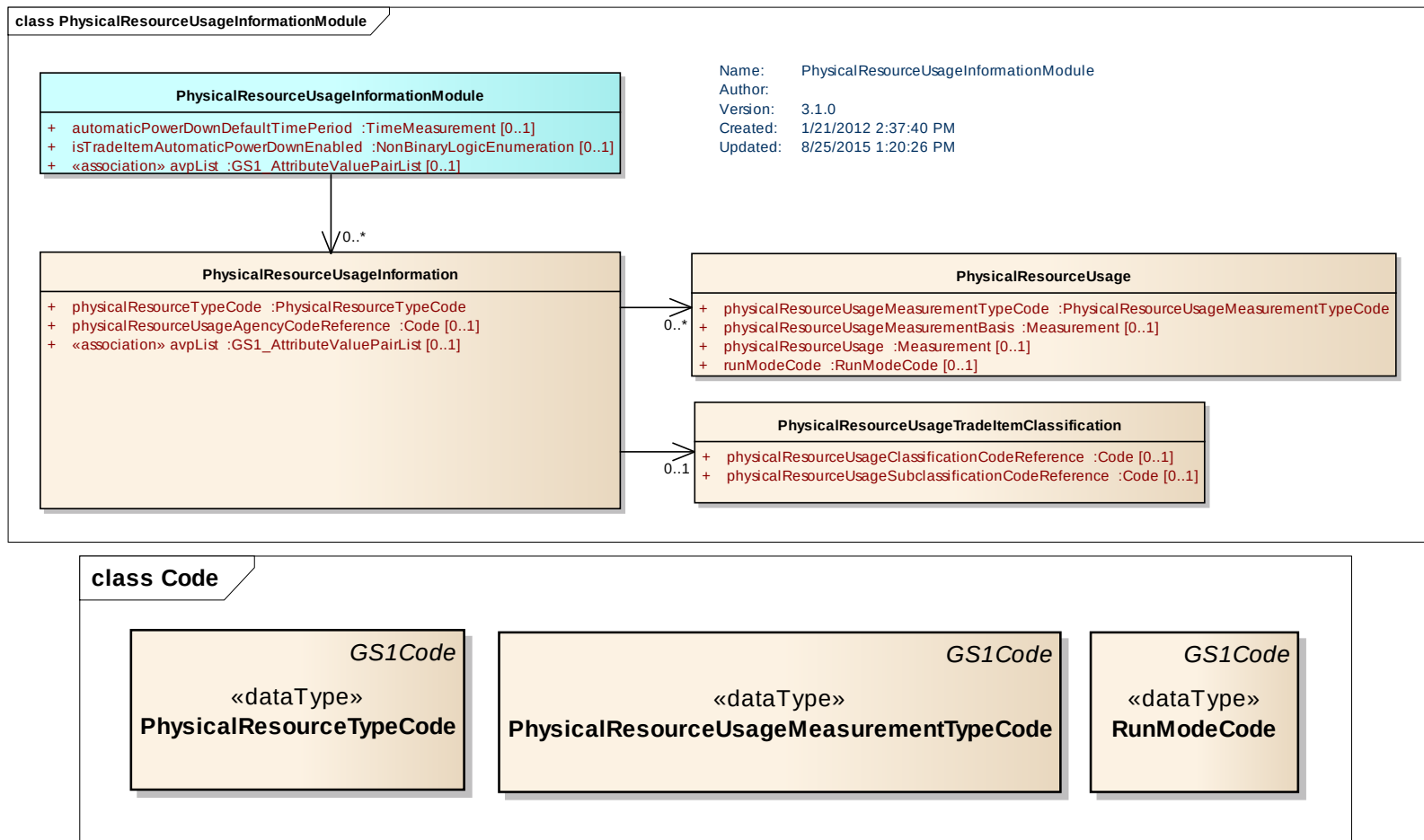


Note: Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multiplicity	definition
PharmaceuticalItem Information				Information on medicinal drugs.
Association	psychotropicSubstance	ExternalCodeValueInformation	0..*	A psychotropic substance is any chemical agent affecting the mind or mental processes (i.e., any psychoACTIVE drug). (ii) In the context of international drug control, 'psychotropic substance' means any substance, natural or synthetic, or any natural material in Schedule I, II, III or IV of the 1971 Convention. *Those utilizing this functionality should be aware of the Vienna convention and requirement to annually declare stock movements to national control body.Examples of psychoactive drugs may include: amphetamines, barbiturates, and psychedelics. This class of substances includes almost any conceivable mind-altering substance.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.
Attribute	isTradeItemConsideredDopingProduct	NonBinaryLogicEnumeration	0..1	Indicates that the product could be considered a doping substance which is a substance which is part of the list of prohibited substances, pharmaceutical products and methods yearly published by World Anti-Doping Agency. Doping products typically fall into one of the following general types of substances: Anabolic Agents, Hormones and Related Substances, Beta-2 Agonist, Hormone Antagonist and Modulators, Diuretics and other Masking Agents, Stimulants, Narcotics, Cannabinoids, Glucocorticosteroids, Alcohol, Beta-Blockers.
Attribute	isTradeItemMarkedNoShake	NonBinaryLogicEnumeration	0..1	Indicates that the trade item is marked to not be shaken during transport, storage, or use.
PharmaceuticalItemInformationModule				A module containing information on medicinal drugs.
Association		PharmaceuticalItemInformation	0..1	Pharmaceutical information for a trade item.

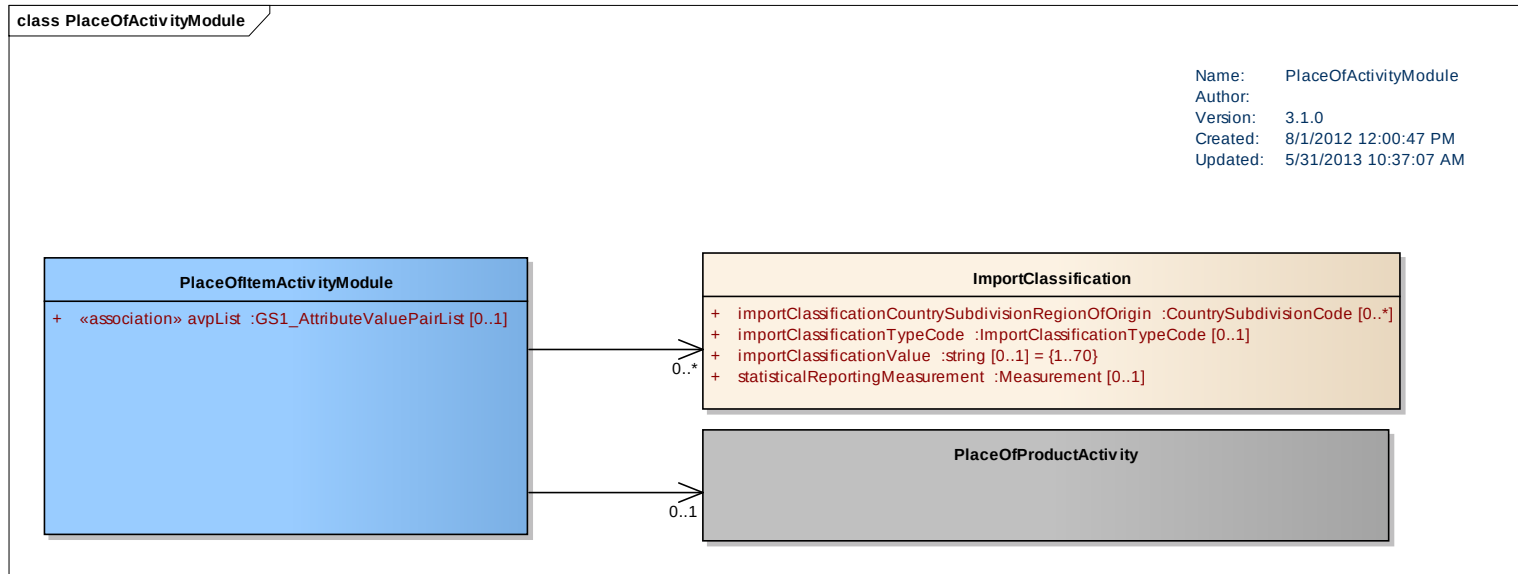
5.42. Physical Resource Usage Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
PhysicalResourceUsage				Information on the amount of energy used for a trade item.
Attribute	physicalResourceUsageMeasurementTypeCode	PhysicalResourceUsageMeasurementTypeCode	1..1	A qualifier determining whether the resource usage is maximum or average.
Attribute	physicalResourceUsageMeasurementBasis	Measurement	0..1	The basis used to determine the resource usage for the trade item for example time period (e.g. hours, days, years).
Attribute	physicalResourceUsage	Measurement	0..1	The amount of resources used by a device powered by a resource type.
Attribute	runModeCode	runModeCode	0..1	The functional mode of a device expressed as a code for example ON, SLEEP or STANDBY. Run modes are defined by various guidelines for example the energy star guideline.
PhysicalResourceUsageTradeItemClassification				A trade item classification used to drive requirements for information for trade items which use physical resources for example water or electricity.
Attribute	physicalResourceUsageSubclassificationCodeReference	Code	0..1	A sub-classification code value from a product classification scheme provided to drive required information for resource usage.
Attribute	physicalResourceUsageClassificationCodeReference	Code	0..1	A classification code value from a product classification scheme provided to drive required information for resource usage.
PhysicalResourceUsageInformation				Details on the usage of physical resources for a trade item during various modes of usage.
Association		PhysicalResourceUsageTradeItemClassification	0..1	A trade item classification used to drive requirements for information for trade items which use physical resources.
Association		PhysicalResourceUsage	0..*	Information on the amount of physical resources used for a trade item.
Attribute	physicalResourceTypeCode	physicalResourceTypeCode	1..1	A code depicting the type of physical resource being measured for usage for example electricity, gas.
Attribute	physicalResourceUsageAgencyCodeReference	Code	0..*	The agency that regulates resource usage for products within a target market. For example Environmental Protection Agency (EPA) in the United States.
PhysicalResourceUsageInformationModule				A module containing details on the usage of resources for a trade item during various modes of usage.
Association		PhysicalResourceUsageInformation	0..*	Details on the usage of resources for a trade item during various modes of usage.
Association	avpList	GS1_AttributeValuePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	automaticPowerDown DefaultTimePeriod	TimeMeasurement	0..1	The default time value that the product will automatically power down for trade item.
Attribute	isTradeItemAutomatic PowerDownEnabled	NonBinaryLogicEnumeration	0..1	An indicator whether a product is enabled with auto power down feature when shipped to the customer. Auto power down is a feature that operates similarly to power management features and requires the unit to enter a standby passive mode after a certain pre-set number of hours of user inactivity.

5.43. Place of Item Activity Module

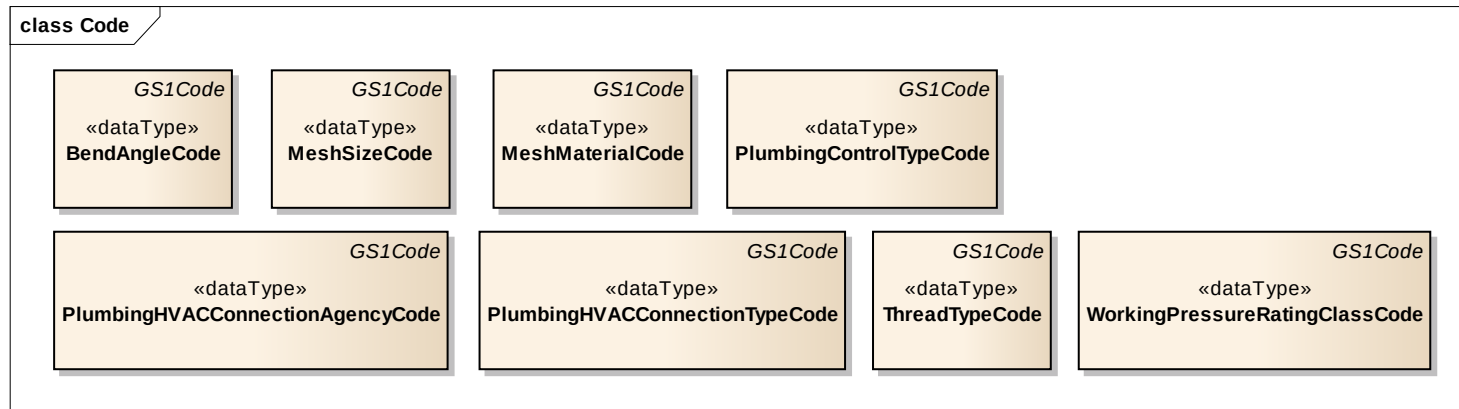
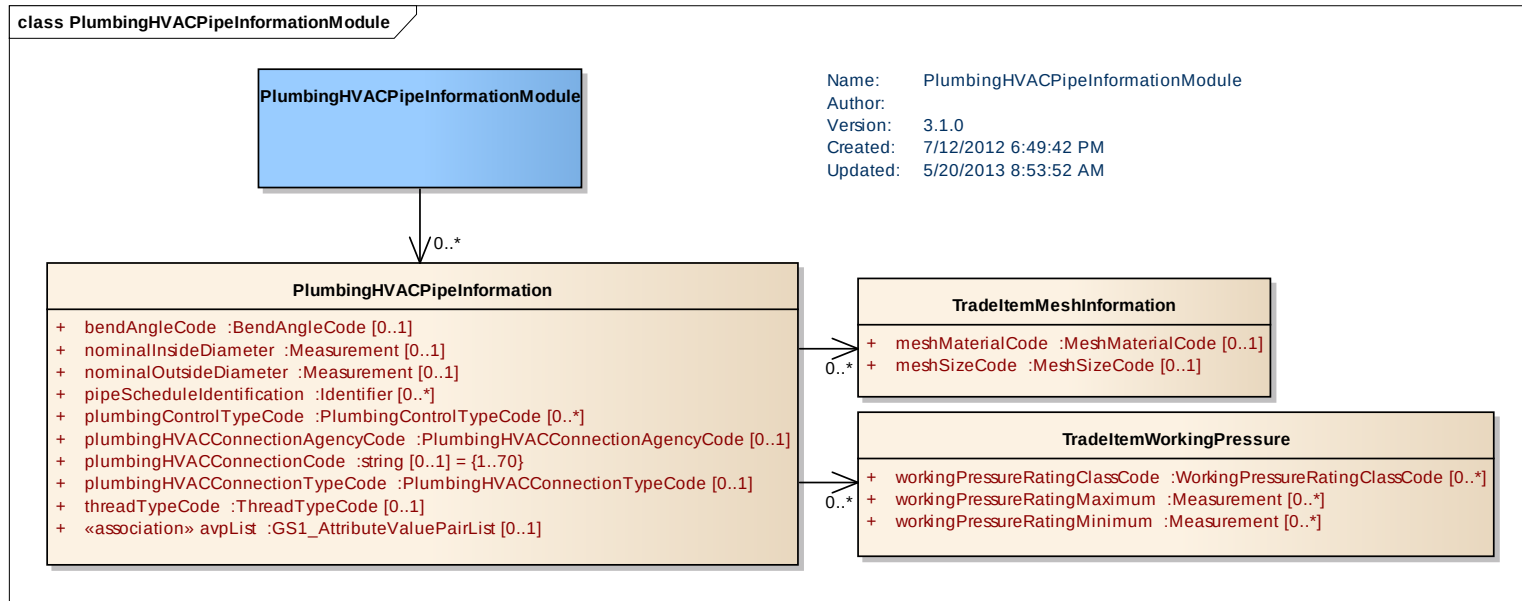


Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multipl icity	definition
ImportClassific ation				Imports and exports of trade items typically require classification codes to determine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté
Attribute	importClassificati onCountrySubdivi sionRegionOfOrig in	CountrySubdivi sionCode	0..*	The region of origin of the trade item for import purposes. This is required by Intrastat.

content	attribute / role	datatype /secondary class	multipl icity	definition
Attribute	importClassificati onTypeCode	ImportClassifica tionTypeCode	0..1	Imports and exports of trade items typically require classification codes to determine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté
Attribute	importClassificati onValue	string	0..1	The value for an associated import classification type.
Attribute	statisticalReportin gMeasurement	Measurement	0..1	The amount of the trade item net of any packaging (e.g. Box, Spool) provided for statistical reporting purposes. In the EU, the Supplementary Unit of the Intrastat Supplementary Declaration, provided when the Net Mass in Kilograms is not acceptable based on the Commodity Classification for Foreign Trade Statistics. For example, ice cream is reported in net mass so no supplementary unit is required. Carpets are reported in square metres, so the area of carpet of the trade item should be shown in statistical Reporting Measurement in square metres.
PlaceOfItemAc tivityModule				Origin and other information for the purposes of customs, marketing, etc.
Association		PlaceOfProduct Activity	0..1	Information on the activity (e.g. bottling) taken place for a trade item as well as the associated geographic area.
Association		ImportClassifica tion	0..*	The value for an associated import classification type.
Association	avpList	GS1_AttributeV aluePairList	0..1	The transmission of non-standard data done in a simple, flexible, and easy to use method.

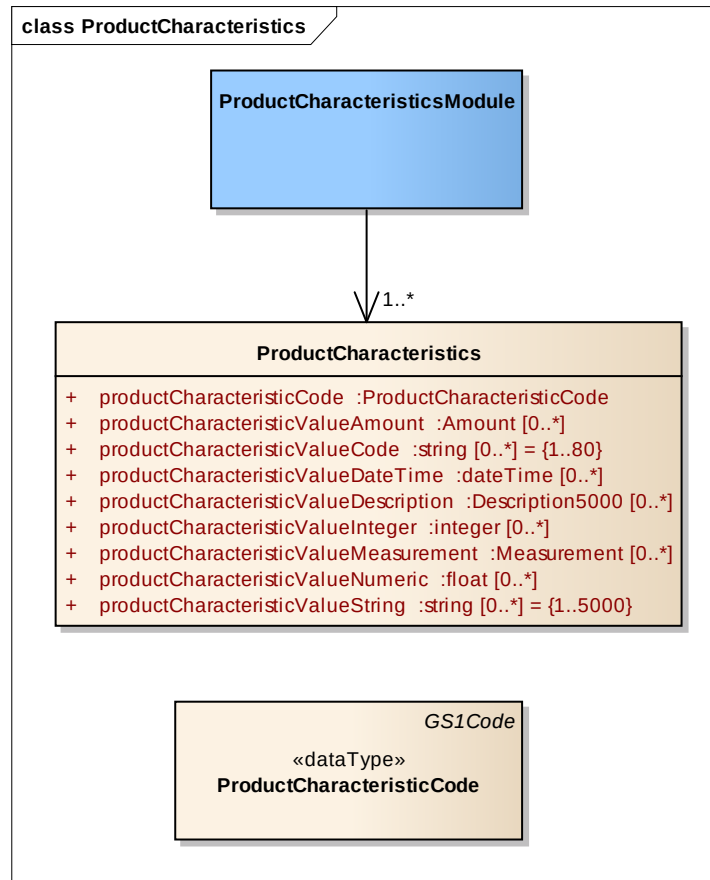
5.44. Plumbing HVAC Pipe Information Module



content	attribute / role	datatype /secondary class	multipl city	definition
PlumbingHVACPipeInformation				Plumbing and HVAC information for a trade item.
Association		TradeItemMeshInformation	0..*	Information related to mesh trade items.
Association		TradeItemWorkingPressure	0..*	Information related to the working pressure of a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	bendAngleCode	bendAngleCode	0..1	The type of bend or angle for the product. For example a pipe made to turn a corner might have a bend angle of 90 degrees.
Attribute	nominalInsideDiameter	Measurement	0..1	The measurement of the nominal (not the exact measurement) inside diameter of the plumbing connection point of the trade item.
Attribute	nominalOutsideDiameter	Measurement	0..1	The measurement of the nominal (not the exact measurement) outside diameter of the plumbing connection point of the trade item.
Attribute	pipeScheduleIdentification	Identifier	0..*	The pipe schedule or rating size as defined by an external agency for example Schedule 40 or SDR-9. A pipe schedule is how this is classified in regards to the functions of the pipe including type of medium (e.g. solid, liquid or gas) and pressure rating.
Attribute	plumbingControlTypeCode	PlumbingControlTypeCode	0..*	The mechanism used for the flow control of the unit for example faucet, handle, wheel, electronic actuator.
Attribute	plumbingHVACConnectionAgencyCode	PlumbingHVACConnectionAgencyCode	0..1	The agency which controls the standards used to determine the design for a plumbing HVAC connection type and dimensions.
Attribute	plumbingHVACconnectionCode	string	0..1	A code determining the connection point on the trade item that the plumbing connection type refers to. This code is determined by standards established by the plumbing HVAC connection agency.
Attribute	plumbingHVACconnectionTypeCode	PlumbingHVACConnectionTypeCode	0..1	The type of plumbing HVAC connection points available for the trade item for example grooved joint. The connection type(s) will help determine how this trade item can connect to other products.

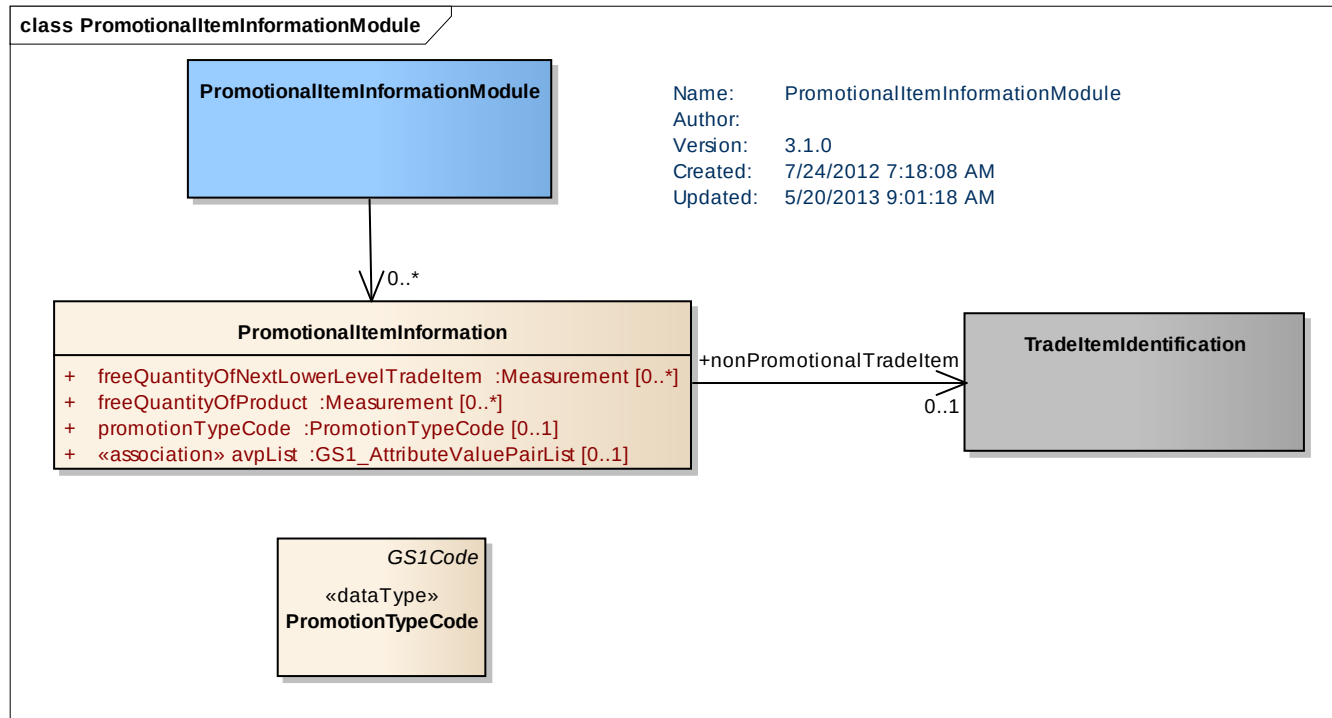
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	threadTypeCode	ThreadTypeCode	0..1	The type of pipe threading available on the product. Threading is the grooves onto which another unit or part can be screwed to make a connection
PlumbingHVACPipeInformationModule				Pipe and heating, ventilation, and air conditioning information for a trade item.
Association		PlumbingHVACPipeInformation	0..*	Pipe and heating, ventilation, and air conditioning information for a trade item.
TradeItemMeshInformation				Information related to mesh trade items.
Attribute	meshMaterialCode	MeshMaterialCode	0..1	The material used to create the mesh strainer in the product. The mesh provides particulate filtration for the unit.
Attribute	meshSizeCode	MeshSizeCode	0..1	The size of the openings in the mesh strainer of the product as an integer. The mesh provides particulate filtration for the unit.
TradeItemWorkingPressure				Information related to the working pressure of a trade item.
Attribute	workingPressureRatingClassCode	WorkingPressureRatingClassCode	0..*	The state of the medium being pushed through the pipe for example water or steam in relation to determining working pressure.
Attribute	workingPressureRatingMaximum	Measurement	0..*	The maximum approved working pressure rating for the product for a specific medium state (water, gas, etc).
Attribute	workingPressureRatingMinimum	Measurement	0..*	The minimum approved working pressure rating for the product for a specific medium state (water, gas, etc).

5.45 Product Characteristics Module



content	attribute / role	datatype /secondary class	multipli city	definition
ProductCharacteristics				A characteristic for a product for example values for a property such as numberOfPlys along with its associated value for example 2.
Attribute	productCharacteristicCode	productCharacteristicCode	1..1	The name of the product characteristic being described for example numberOfPlys.
Attribute	productCharacteristicValueAmount	Amount	0..*	The product characteristic value expressed as an amount (with currency code).
Attribute	productCharacteristicValueCode	string	0..*	The product characteristic value expressed as a code.
Attribute	productCharacteristicValueDateTime	dateTime	0..*	The product characteristic value expressed as a date and time.
Attribute	productCharacteristicValueDescription	Description5000	0..*	The product characteristic value expressed as a description (text with language).
Attribute	productCharacteristicValueInteger	integer	0..*	The product characteristic value expressed as an integer.
Attribute	productCharacteristicValueMeasurement	Measurement	0..*	The product characteristic value expressed as a measurement (float with unit of measure).
Attribute	productCharacteristicValueNumeric	float	0..*	The product characteristic value expressed as a float.
Attribute	productCharacteristicValueString	string	0..*	The product characteristic value expressed as a string (text value with no language).
ProductCharacteristicsModule				A module used to express characteristics for a product for example values for a property such as numberOfPlys.
Association		ProductCharacteristics	1..*	The product characteristic value expressed as an amount (with currency code).

5.46. Promotional Item Information Module

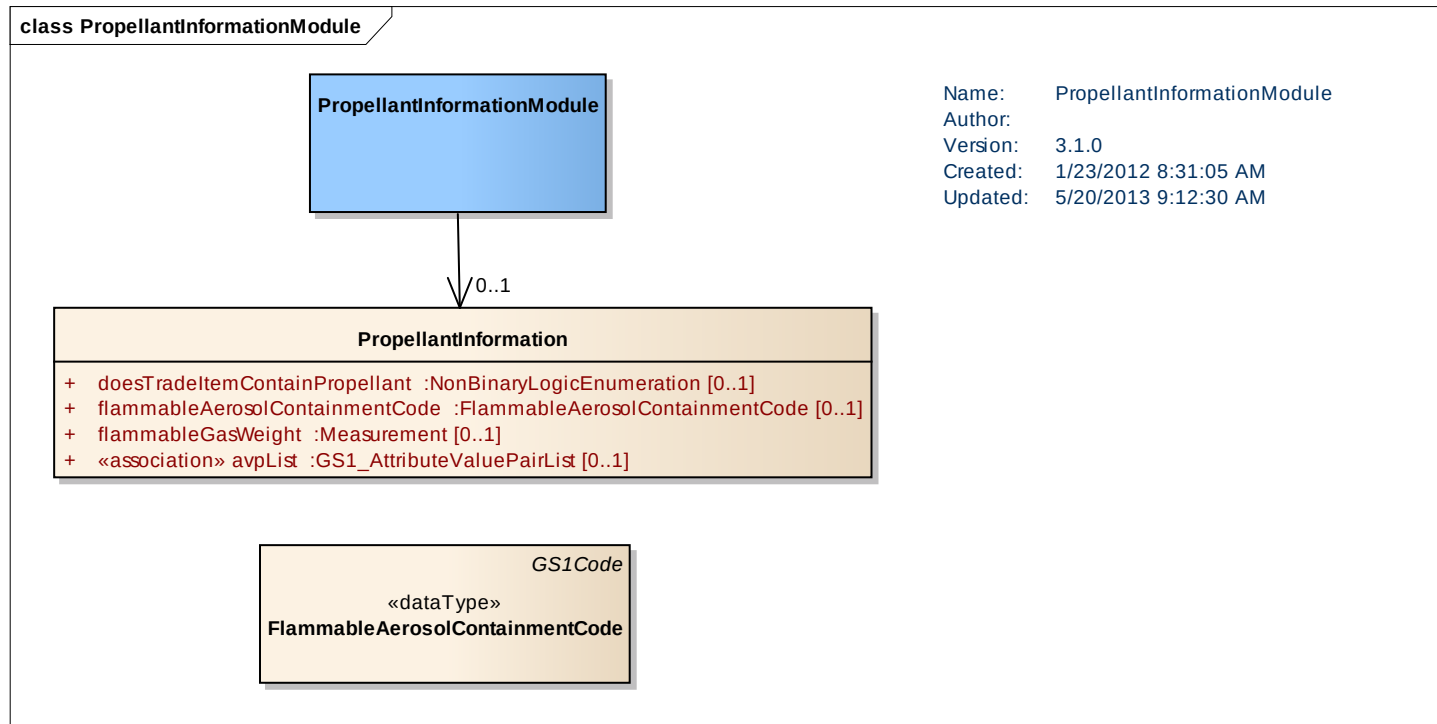


Note: Common class (in grey) is located in Shared Common Library.

content	attribute / role	datatype /secondary class	multipl icity	definition
PromotionalItemInformation				Provides details of the type of promotional item and its relationship to the non-promotional item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association	nonPromotionalTradeItem	TradeItemIdentification	0..1	The GTIN of the standard Trade Item. Used to indicate which trade item the promotional trade item replaces or coexists with. To enable the linking of identification and there for of information be-teen the two trade items.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	freeQuantityOfNextLowerLevelTradeItem	Measurement	0..*	The numeric quantity of free items in a combination pack. If the free quantity promotional trade item is simple or is a multi-pack the free quantity is populated. The unit of measure used for the free quantity of next lower level must be the same as the unit of measure of the Net Content of the Child Trade Item.
Attribute	freeQuantityOfProduct	Measurement	0..*	To indicate the quantity which is free. It is needed to update the price per unit of measure as displayed on the shelves. The unit of measure must be the same as the unit of measure of the Net Content. If the free quantity is expressed on the package it must be converted to a quantity expressed in the same unit of measure as the net content in the message.
Attribute	promotionTypeCode	PromotionType Code	0..1	Used to identify the different types of free quantity promotional trade items and the nature of the link between the standard trade item and the promotional trade item.
PromotionalItemInformationModule				A module providing details of the type of promotional item.
Association		PromotionalItemInformation	0..*	Details of the type of promotional item.

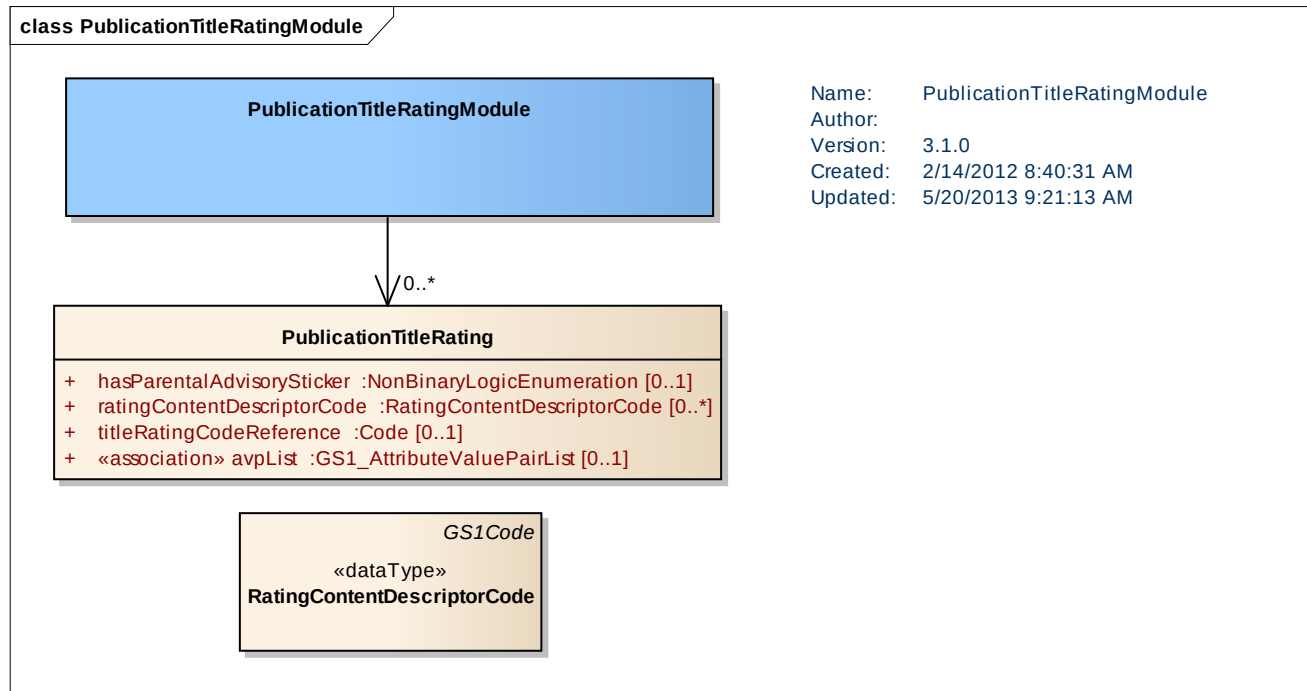
5.47. Propellant Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
PropellantInformation				Information on compressed gas or propellant contained in the trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	doesTradelItemContainPropellant	NonBinaryLogicEnumeration	0..1	Indicates if a trade item contains a compressed gas or propellant.
Attribute	flammableAerosolContainmentCode	FlammableAerosolContainmentCode	0..1	Determines whether the propellant in the trade item is an aerosol and whether the aerosol is considered flammable.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	flammableGasWeight	Measurement	0..1	This is the weight of the flammable gas in the trade item. Note: Per submitter this is expressed in the UK in grammes This attribute is required if the item is an aerosol which contains flammable gas (FLAMMABLE_AEROSOL).
PropellantInformationModule				Information on compressed gas or propellant contained in the trade item.
Association		PropellantInformation	0..1	Propellant details for a trade item.

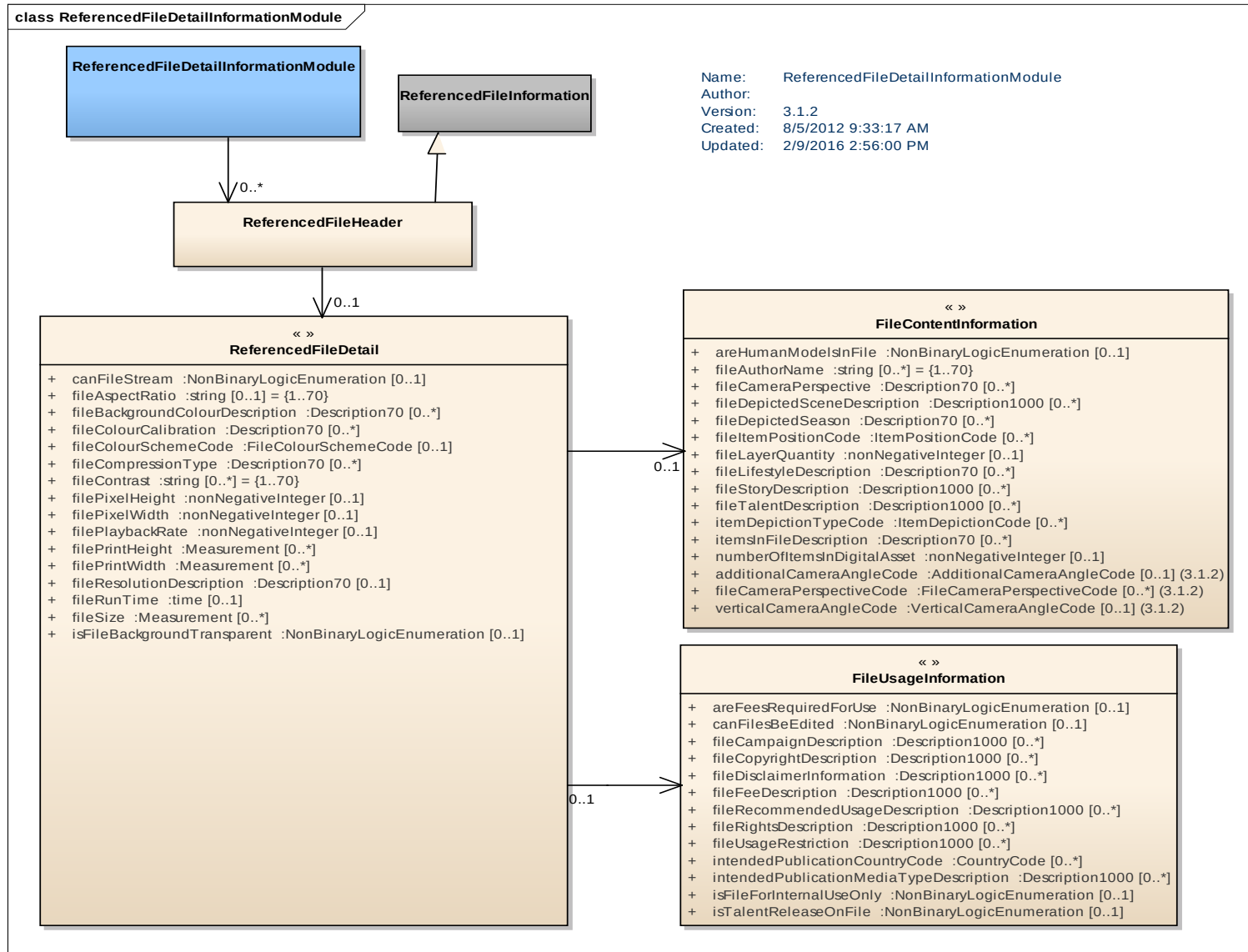
5.48. Publication Title Rating Module

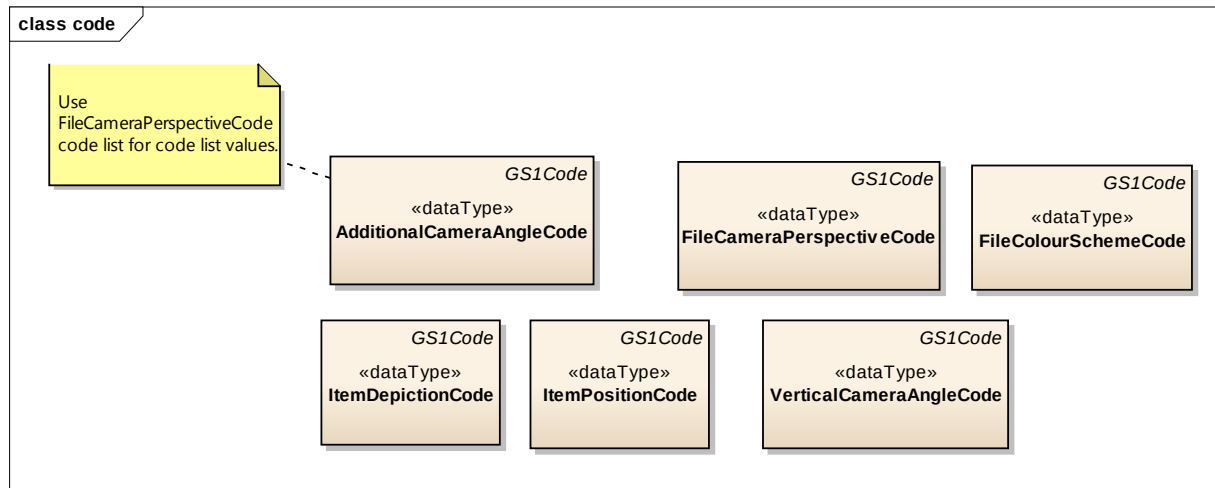


content	attribute / role	datatype /secondary class	multiplicity	definition
PublicationTitleRatingModule				A module containing information regarding the content viewer maturity rating for an entertainment product.
Association		PublicationTitleRating	0..*	Information regarding the content viewer maturity rating for an entertainment product.
PublicationTitleRating				Information regarding the content viewer maturity rating for an entertainment product.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	hasParentalAdvisorySticker	NonBinaryLogicEnumeration	0..1	Indication of the presence of parental advisory sticker.

content	attribute / role	datatype /secondary class	multiplic ity	definition
Attribute	ratingContentDescriptorCode	ratingContentDescriptorCode	0..*	A code that identifies one or several elements that have triggered a particular rating and/or may be of interest or concern.
Attribute	titleRatingCodeReference	Code	0..1	A rating assigned to the title by a country, industry or volunteer organization that may be of interest or concern to the consumer. GS1 Code List used differs based on product type: • Title Rating Code (Games) • Title Rating Code (Film).

5.49. Referenced File Detail Information Module





content	attribute / role	datatype /secondary class	multipli city	definition
ReferencedFileDe tailInformationMod ule				Information specifying a link to a file external to the message itself.
Association		ReferencedFileHea der	0..*	Information specifying a link to a file external to the message itself.
ReferencedFileHe ader				Basic referenced file information.
Association	<Generalization>	ReferencedFileInfo rmation	1..1	Imports information contained in ReferencedFileInformationClass into the ReferencedFileHeader
Association		ReferencedFileDet ail	0..1	Information specifying a link to a file external to the message itself.
ReferencedFileDe tail				Information specifying a link to a file external to the message itself.
Association		FileUsageInformati on	0..1	Information on usage of a referenced file.
Association		FileContentInforma tion	0..1	Information on the content of the referenced file.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.

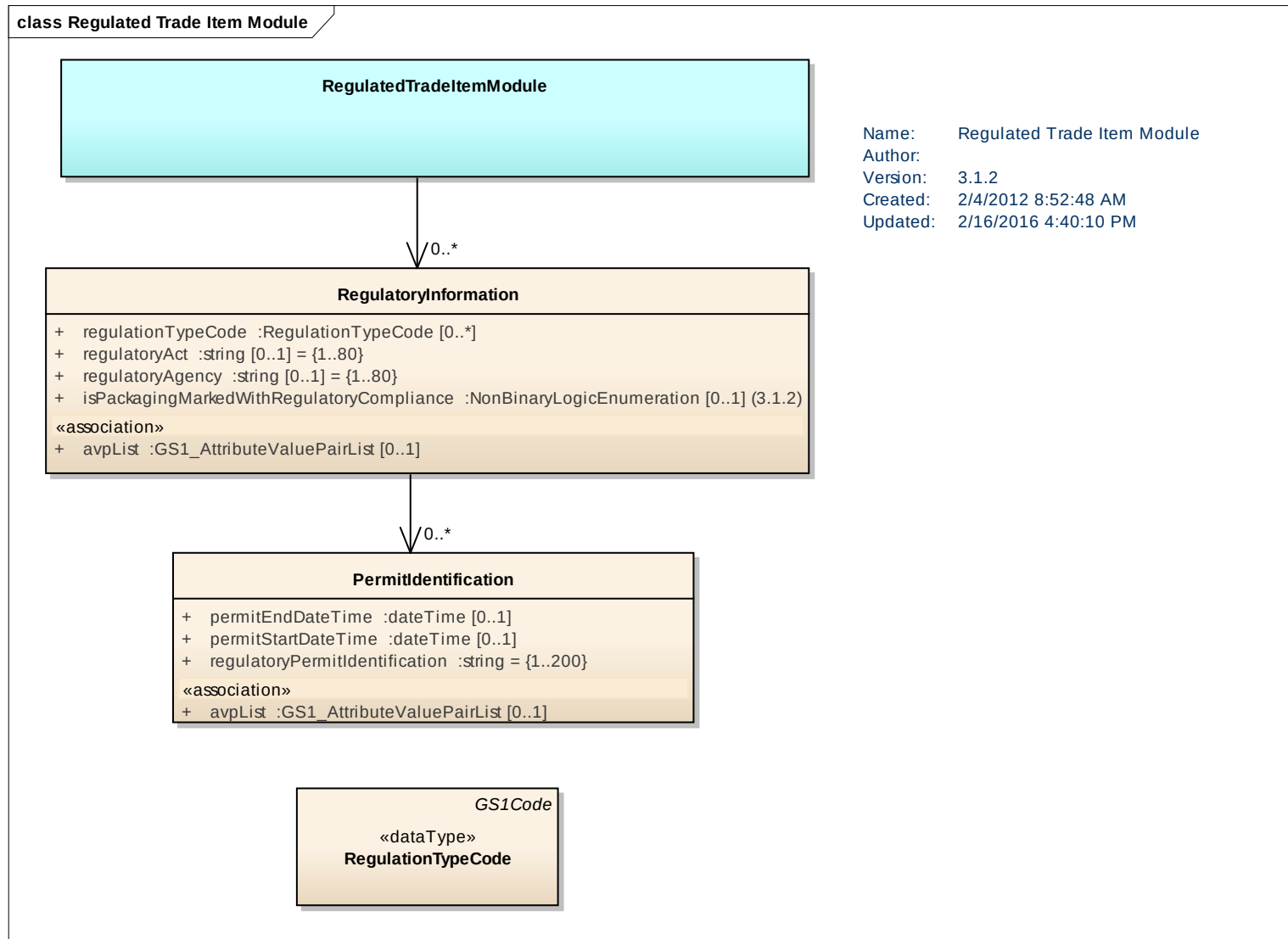
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	canFileStream	NonbinaryLogicEnumeration	0..1	An indicator that the digital asset is compressed to start displaying/running before fully uncompressing.
Attribute	fileAspectRatio	string	0..1	A description of the aspect ratio used to determine how a digital asset fits on a page or monitor.
Attribute	fileBackgroundColour Description	Description70	0..*	A description of the colour for the background in the digital asset. The background is the area in the asset which surrounds the item.
Attribute	fileColourCalibration	Description70	0..*	The colour calibration fashion used in the creation of the digital asset for example: Kodak, Heidelberg CMM, Apple colourSync, etc.
Attribute	fileColourSchemeCode	FileColourScheme Code	0..1	The type of colour scheme used in the digital asset.
Attribute	fileCompressionType	Description70	0..*	A description of the compression method used to reduce the file size stored at the link. This information is used to aid the user in choosing the correct program to extract the file. Examples include Quick Time, Real Player, mpg, WinZip, etc.
Attribute	fileContrast	string	0..*	The contrast used in the digital asset. Contrast is the difference in brightness between light and dark areas of an image. Contrast determines the number of shades in the image.
Attribute	filePixelHeight	nonNegativeInteger	0..1	The number of pixels along the vertical axis of the image.
Attribute	filePixelWidth	nonNegativeInteger	0..1	The number of pixels along the horizontal axis of the image.
Attribute	filePlaybackRate	nonNegativeInteger	0..1	The targeted frame rate for the display of the digital asset, expressed as an integer representing the number of frames per second.
Attribute	filePrintHeight	Measurement	0..*	The number of pixels along the vertical axis of the image.
Attribute	filePrintWidth	Measurement	0..*	The number of pixels along the horizontal axis of the image.
Attribute	fileResolutionDescription	Description70	0..1	The resolution of the file. Knowing the resolution will allow the user to be able to determine the best system with which to utilize the file.
Attribute	fileRunTime	time	0..1	The playback or running length of time for the digital asset. This most common is in reference to video or audio files, but is not limited to them. This would be expressed in hours, minutes and second (hh:mm:ss).

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	fileSize	Measurement	0..*	The size of the file as it is stored in an uncompressed format.
Attribute	isFileBackgroundTransparent	NonbinaryLogicEnumeration	0..1	An indicator of whether or not the background used in the file is transparent. Having a transparent background would allow a recipient to place the file into any setting necessary.
FileContentInformation				Information on file content for an external file.
Attribute	additionalCameraAngleCode	AdditionalCameraAngleCode	0..1	An additional camera angle used to take a picture of the trade item for example ZOOM_VIEW. If this attribute is not populated, the assumption is a full trade item view. Uses FileCameraPerspectiveCode code list.
Attribute	areHumanModelsInFile	NonbinaryLogicEnumeration	0..1	An indicator whether or not the item is shown or depicted with human models.
Attribute	fileAuthorName	string	0..*	The organization(s) or person(s) who is responsible for creating the digital asset.
Attribute	fileCameraPerspective	Description70	0..*	A description of the angle of perspective used by the camera in the capture of the digital asset.
Attribute	fileCameraPerspectiveCode	fileCameraPerspectiveCode	0..*	A code describing the angle, perspective or the focal lens setting used by the camera in the capture of the digital asset.
Attribute	fileDepictedSceneDescription	Description1000	0..*	The scene or location used as a setting or backdrop in the digital asset.
Attribute	fileDepictedSeason	Description70	0..*	A description of the season shown or depicted within the digital asset. (e.g. Winter, Spring).
Attribute	fileItemPositionCode	ItemPositionCode	0..*	A description of how the item is placed in the digital asset for example the item is propped (leaning against an object) or held (being held by a model).
Attribute	fileLayerQuantity	nonNegativeInteger	0..1	The number of layers in the digital asset.
Attribute	fileLifestyleDescription	Description70	0..*	The lifestyles to which this digital asset can be used. For example psychographic, demographic, age, etc.
Attribute	fileStoryDescription	Description1000	0..*	A description of the storyboard or plot of the digital file.
Attribute	fileTalentDescription	Description1000	0..*	The specific identification of the talent used in the file. For example, may identify a celebrity as the spokesperson for the product as included in the asset.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	itemDepictionTypeCode	ItemDepictionCode	0..*	The state of the item as it is being depicted in the digital assets for example gift wrapped or assembled.
Attribute	itemsInFileDescription	Description70	0..*	A description of the additional items shown or depicted in the digital asset.
Attribute	numberOfItemsInDigitalAsset	nonNegativeInteger	0..1	The number of items in the digital asset, where the asset contains more than one item.
Attribute	verticalCameraAngleCode	verticalCameraAngleCode	0..1	The vertical angle used to photograph an object expressed as a code for example PARALLEL.
FileUsageInformation				Information on usage for an external file.
Attribute	areFeesRequiredForUse	NonbinaryLogicEnumeration	0..1	An indicator whether or not a fee is required for the use of this digital asset.
Attribute	canFilesBeEdited	NonbinaryLogicEnumeration	0..1	An indicator of whether the user or recipient of the digital asset can edit it prior to use or as a function of using the asset. Some digital assets are designed such that the recipient can edit the asset to meet the needs of a final output.
Attribute	fileCampaignDescription	Description1000	0..*	A reference to a specific communication project to which the digital asset is associated, such as the Back To School Campaign. A campaign is a marketing term used to describe the event, sale, promotion, or other program for which this digital asset is designed to be part.
Attribute	fileCopyrightDescription	Description1000	0..*	A description of any Copyright notice which pertains to the digital asset.
Attribute	fileDisclaimerInformation	Description1000	0..*	A description expressing any disclaimers which pertain to the digital asset. (e.g. Item may be smaller than appears).
Attribute	fileFeeDescription	Description1000	0..*	A description of the fees that are applicable to use of the digital asset. This attribute may be a list of actual fees, a description of the fee structure, or contact information to find out the fees.

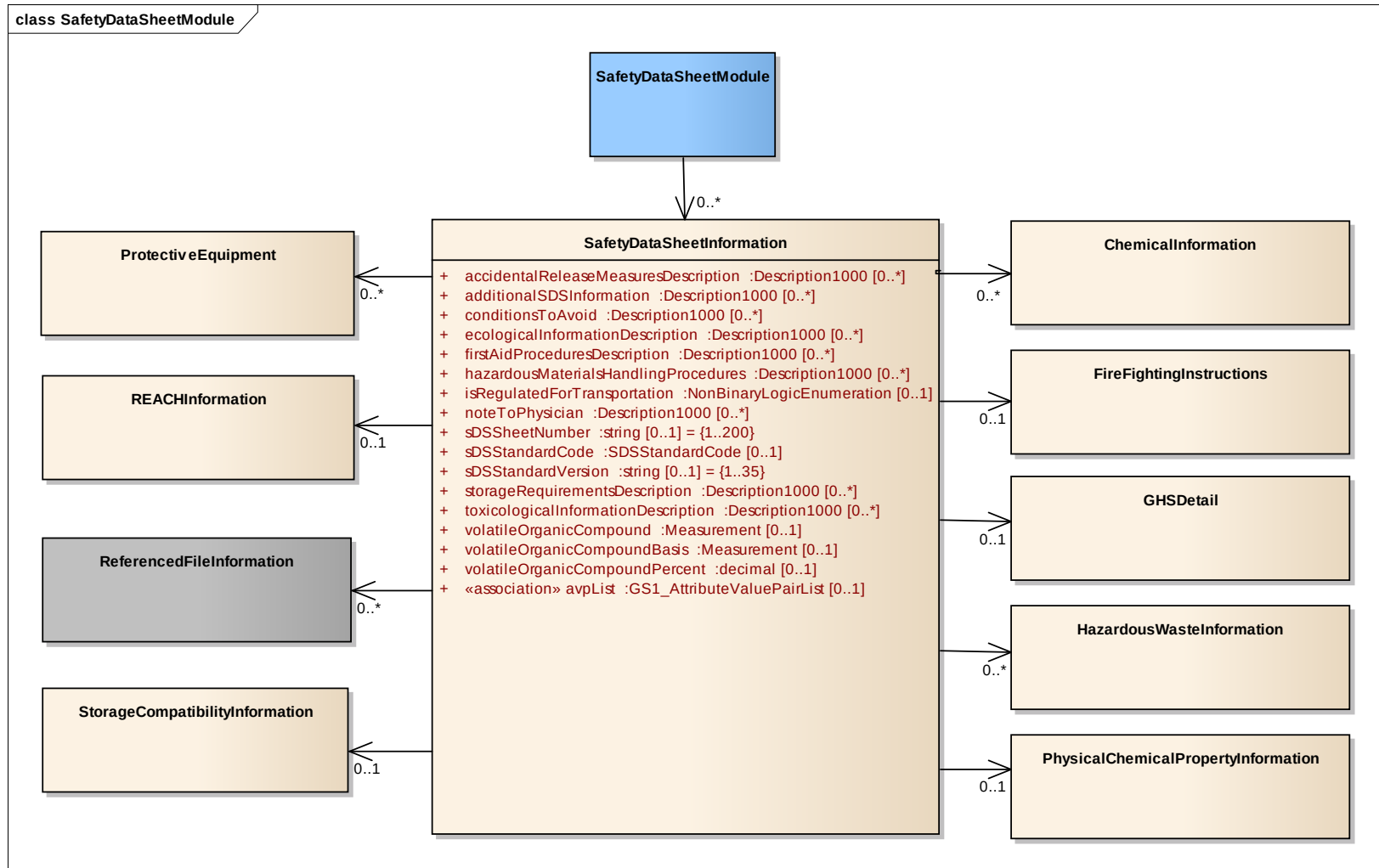
content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	fileRecommendedUsageDescription	Description1000	0..*	A textual description of the recommended use of the asset in an easy to understand fashion such that all parties, regardless of specific expertise, can understand use of the asset. This element's intention is to "translate" complicated characteristics into a simpler textual representation. Examples: • If the characteristics of the external file are a resolution of 1775 x 1230 pixels, colour space RGB 8 bit by colour, format TIF or JPG compressed to maximum quality. Recommended Usage might be "print maximum quality" and/or "web publishing". • If the characteristics of the external file are mpg, Recommended Usage might be "web publishing". As this value may not be the same for all digital assets, this attribute should be linked to a specific URL.
Attribute	fileRightsDescription	Description1000	0..*	The structure for Digital Rights Management (DRM) which is in place on the file. This could be ID and location of external Intellectual Property Management & Protection (IPMP) system for lookup of usage rights. Presence of a value for this attribute signifies that the file uses a DRM.
Attribute	fileUsageRestriction	Description1000	0..*	A description of any restrictions on the ability of the recipient's to use of the asset.
Attribute	intendedPublicationCountryCode	CountryCode	0..*	The country/countries in which the digital asset is designed to be used.
Attribute	intendedPublicationMediaTypeDescription	Description1000	0..*	The media types with which the digital asset was designed to be utilized, such as Web, Catalogue, Circular among others.
Attribute	isFileForInternalUseOnly	NonBinaryLogicEnumeration	0..1	An indicator whether or not the file is intended for internal use only and not for general publication.
Attribute	isTalentReleaseOnFile	NonBinaryLogicEnumeration	0..1	An indicator whether or not the owner of the asset has a talent release on file. This applies to files where talent or a model is used.

5.50. Regulated Trade Item Module



content	attribute / role	datatype /secondary class	multipli city	definition
RegulatedTradeItemModule				A module containing Information on applicable government regulations a trade item is in compliance with.
Association		RegulatoryInformation	0..*	Information on applicable government regulations a trade item is in compliance with.
PermitIdentification				Contains the information regarding the permit identification.
Attribute	permitEndDateTime	dateTime	0..1	The date on which the permit expires.
Attribute	permitStartDateTime	dateTime	0..1	The start date on which the permit is effective.
Attribute	regulatoryPermitIdentification	string	1..1	Identification of the permit or license given by the regulatory agency.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
RegulatoryInformation				Information on applicable government regulations a trade item is in compliance with.
Association		PermitIdentification	0..*	Permit information for a regulation.
Attribute	isPackagingMarkedWithRegulatoryCompliance	NonBinaryLogicEnumeration	0..1	Indicator of whether the packaging is marked with a regulatory compliance code.
Attribute	regulatoryAct	string	0..1	The name given to the requirement assigned by the regulatory agency.
Attribute	regulatoryAgency	string	0..1	The required information is the name of the specific entity in charge of issuing the permit to a company.
Attribute	regulationTypeCode	RegulationTypeCode	0..*	A code that indicates that a trade item is in compliance with specific applicable government regulations.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.

5.51. Safety Data Sheet Module

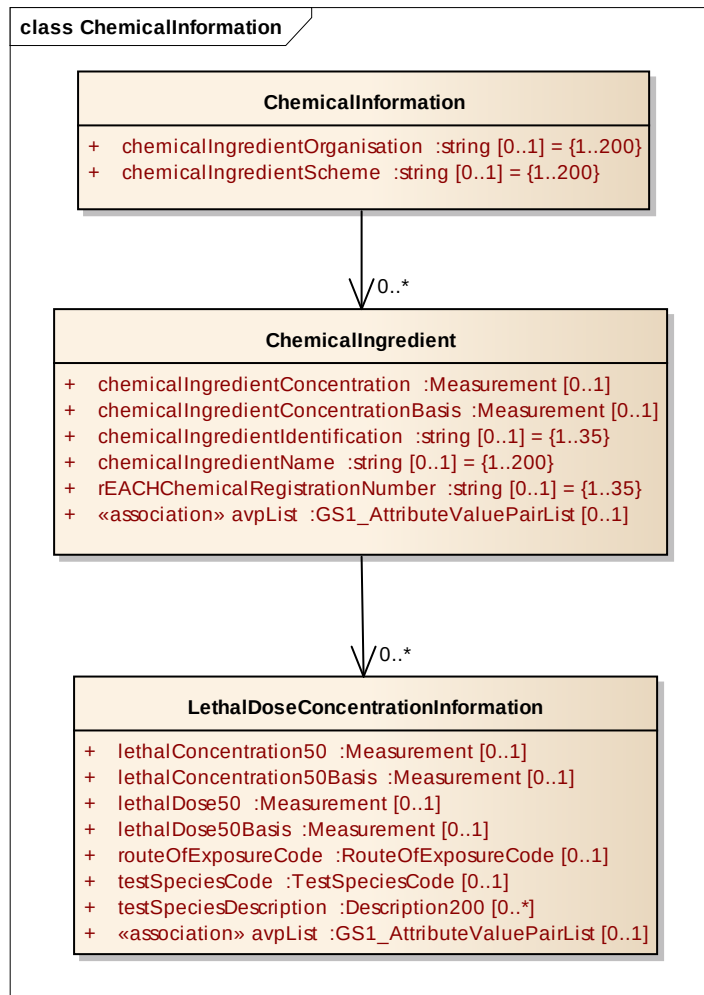


Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multiplicity	definition
SafetyDataSheetModule				A module containing information usually contained on a safety data sheet or on a material safety data sheet as it is referred to in some target markets.
Association		SafetyDataSheetInformation	0..*	Trade item information usually contained on a safety data sheet or on a material safety data sheet as it is referred to in some target markets.
SafetyDataSheetInformation				Trade item information usually contained on a safety data sheet or on a material safety data sheet as it is referred to in some target markets.
Association		PhysicalChemicalPropertyInformation	0..1	Physical or chemical property information expressed on an SDS/MSDS.
Association		ChemicalInformation	0..*	Chemical Information expressed on an SDS/MSDS.
Association		GHSDetail	0..1	Information on GHS for a safety data sheet.
Association		HazardousWasteInformation	0..*	Hazardous waste information expressed on an SDS/MSDS.
Association		REACHInformation	0..1	REACH information expressed on an SDS/MSDS.
Association		ProtectiveEquipment	0..*	Protective equipment recommended for a chemical.
Association		ReferencedFileInformation	0..*	Referenced File information for an SDS/MSDS.
Association		StorageCompatibilityInformation	0..1	Storage compatibility information expressed on an SDS/MSDS.
Association		FireFightingInstructions	0..1	Fire fighting information expressed on an SDS/MSDS.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	accidentalReleaseMeasuresDescription	Description1000	0..*	A description of the method of clean-up or pick up for example Chemtrack number in relation to any hazardous materials regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road).

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	additionalSDSInformation	Description1000	0..*	A description field for other information regarding the MSDS that is not in the other sections. For example, additional contact information, or sustainability statement, other information.
Attribute	conditionsToAvoid	Description1000	0..*	Conditions, environments, or other chemicals that when mixed with a product can cause an adverse reaction. For example exposing acids to bases.
Attribute	ecologicalInformationDescription	Description1000	0..*	Any information required on the SDS/MSDS in relationship to any effect of the chemical on the environment.
Attribute	firstAidProceduresDescription	Description1000	0..*	A description of any first aid procedures necessary in case of exposure. Note: This is used in compliance with ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road).
Attribute	hazardousMaterialsHandlingProcedures	Description1000	0..*	Hazardous materials handling procedures are a description of how the product should be handled in relation to potential hazardous materials for example "do not handle around food, avoid contact with eyes, keep container closed.
Attribute	isRegulatedForTransportation	NonBinaryLogicEnumeration	0..1	An indicator whether the Trade Item is regulated for shipment by any agency.
Attribute	noteToPhysician	Description1000	0..*	A description of any measures a physician should take to treat patient for exposure for example "exposure may cause cardio irritability and what drugs not to be given in relation to any hazardous materials. This requested for hazardous materials regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road).
Attribute	sDSSheetNumber	string	0..1	Manufacturer's identification number for the safety data sheet for a trade item.
Attribute	sDSStandardCode	SDSStandard Code	0..1	A code describing the standard used to create the MSDS that is pointed to in the SDS URL.
Attribute	sDSStandardVersion	string	0..1	The version of the standard used to create the MSDS that is pointed to in the SDS URL.
Attribute	storageRequirementsDescription	Description1000	0..*	A description how to safely store the Trade Item for example cool, dry, not near flame, adequate ventilation.
Attribute	toxicologicalInformationDescription	Description1000	0..*	A general description of any information on any toxic properties as included on the MSDS for example precautionary text on a label. This text should describe the key issues with the product in regards to toxicity.

content	attribute / role	datatype /secondary class	multiplic ity	definition
Attribute	volatileOrganicCompound	Measurement	0..1	Volatile Organic Compound is the amount of an item that is a volatile organic compound expressed as a measurement. Volatile is where the compound can evaporate or vaporize into the atmosphere.
Attribute	volatileOrganicCompoundBasis	Measurement	0..1	The basis measurement for a Volatile Organic Compound when expressed as an amount for example 1 L in the case of 5 ML per 1 LT.
Attribute	volatileOrganicCompoundPercent	decimal	0..1	Volatile Organic Compound by weight is the percentage of an item that is a volatile organic compound. Volatile is where the compound can evaporate or vaporize into the atmosphere.



content	attribute / role	datatype /secondary class	multiplicity	definition
ChemicalInformation				Detailed information on any chemical ingredients contained within the trade item.
Association		ChemicalIngredient	0..*	Chemical ingredient details for a specific chemical ingredient.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	chemicalIngredientOrganisation	string	0..1	An organization managing a chemical ingredient identification scheme.
Attribute	chemicalIngredientScheme	string	0..1	A managed list of chemical ingredient identifications for example CAS.
ChemicalIngredient				Chemical ingredient details for a specific chemical ingredient.
Association		LethalDoseConcentrationInformation	0..*	Lethal Dose and lethal concentration details for a chemical ingredient.
Attribute	chemicalIngredientConcentration	Measurement	0..1	The percentage or amount of a chemical ingredient in relation to the total composition of the product.
Attribute	chemicalIngredientConcentrationBasis	Measurement	0..1	The basis amount used to express the chemical ingredient concentration.
Attribute	chemicalIngredientIdentification	string	0..1	A unique number to identify a chemical used to cross reference regulated lists of chemicals for example CAS number.
Attribute	chemicalIngredientName	string	0..1	The common name of the chemical ingredient.
Attribute	rEACHChemicalRegistrationNumber	string	0..1	A unique registration number for a chemical for a company. This is issued by the European Chemical Agency (ECHA) and is unique per chemical.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
LethalDoseConcentrationInformation				Details on any lethal dose or concentration of a chemical in a trade item.
Attribute	lethalConcentration50	Measurement	0..1	Median Lethal Concentration is a statistically derived concentration of a substance that can be expected to cause death in 50% of test animals. It is usually expressed as the weight of substance per weight or volume of water, air or feed, e.g., mg/l, mg/kg or ppm.
Attribute	lethalConcentration50Basis	Measurement	0..1	The basis measurement for the measurement of Median Lethal Concentration for example 1 LT in the ratio 10 MG/1 LT .

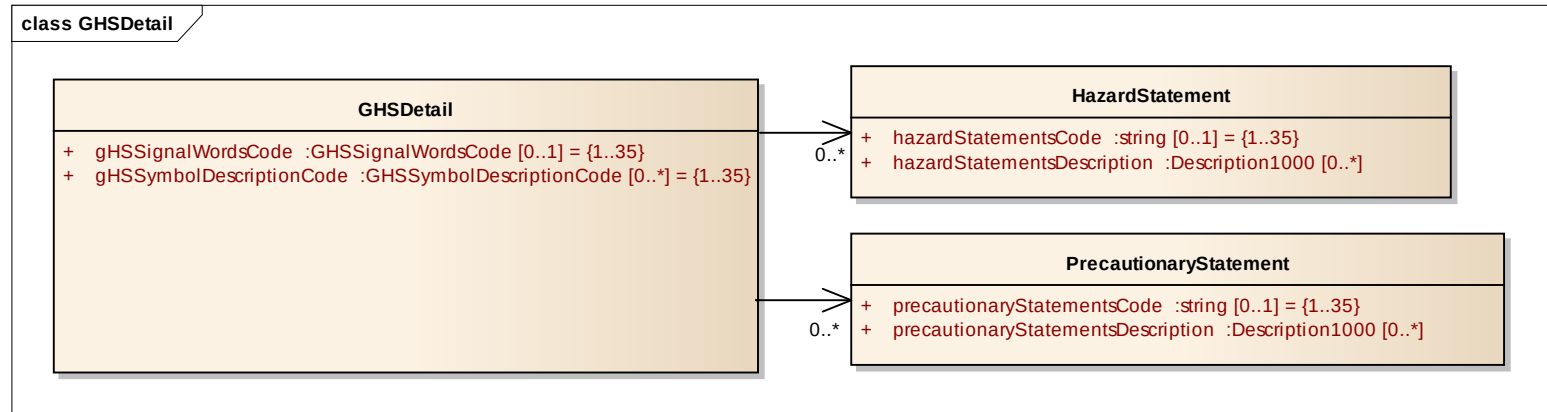
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	lethalDose50	Measurement	0..1	Lethal Dose 50 is a statistically derived single dose that can be expected to cause death in 50% of the test animals when administered by the route indicated (oral, dermal, inhalation). It is expressed as a weight of substance per unit weight of animal, e.g., mg/kg.
Attribute	lethalDose50Basis	Measurement	0..1	The basis measurement for the measurement of a Lethal Dose for example 1 LT in the ratio 10 MG/1 LT.
Attribute	routeOfExposureCode	RouteOfExposureCode	0..1	The means by which living organisms can come into contact with a hazardous substance for example dermal, Inhalation, ingestion.
Attribute	testSpeciesCode	TestSpeciesCode	0..1	The species of animal that was used for determining LC and LD 50 expressed as a code for example RAT.
Attribute	testSpeciesDescription	Description200	0..*	A description of any species of animal that was used for determining LC and LD other than the norm.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.

class fireFightingInstructions

FireFightingInstructions
- extinguishingMediaDescription :Description1000 [0..*] - fireFighterProtectiveEquipmentDescription :Description1000 [0..*] - flammablePropertiesDescription :Description1000 [0..*]

content	attribute / role	datatype /secondary class	multiplicity	definition
FireFightingInstructions				Any instructions on how to handle a fire related to a specific trade item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	extinguishingMediaDescription	Description1000	0..*	A description of any substance that can be used to extinguish a fire, carbon dioxide, water etc in relation to any hazardous materials for example those regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road). Allows for the representation of the same value in different languages but not multiple values.
Attribute	fireFighterProtectiveEquipmentDescription	Description1000	0..*	A description of any equipment recommended to be used by fire fighters for protection for example scuba gear, bunker gear, protective equipment in relation to any hazardous materials for example those regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road). Allows for the representation of the same value in different languages but not multiple values.
Attribute	flammablePropertiesDescription	Description1000	0..*	A description of any properties related to the ability of a substance to catch fire for example auto-ignition temperature, flashpoint, LEL, UEL in relation to any hazardous materials for example those regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road).

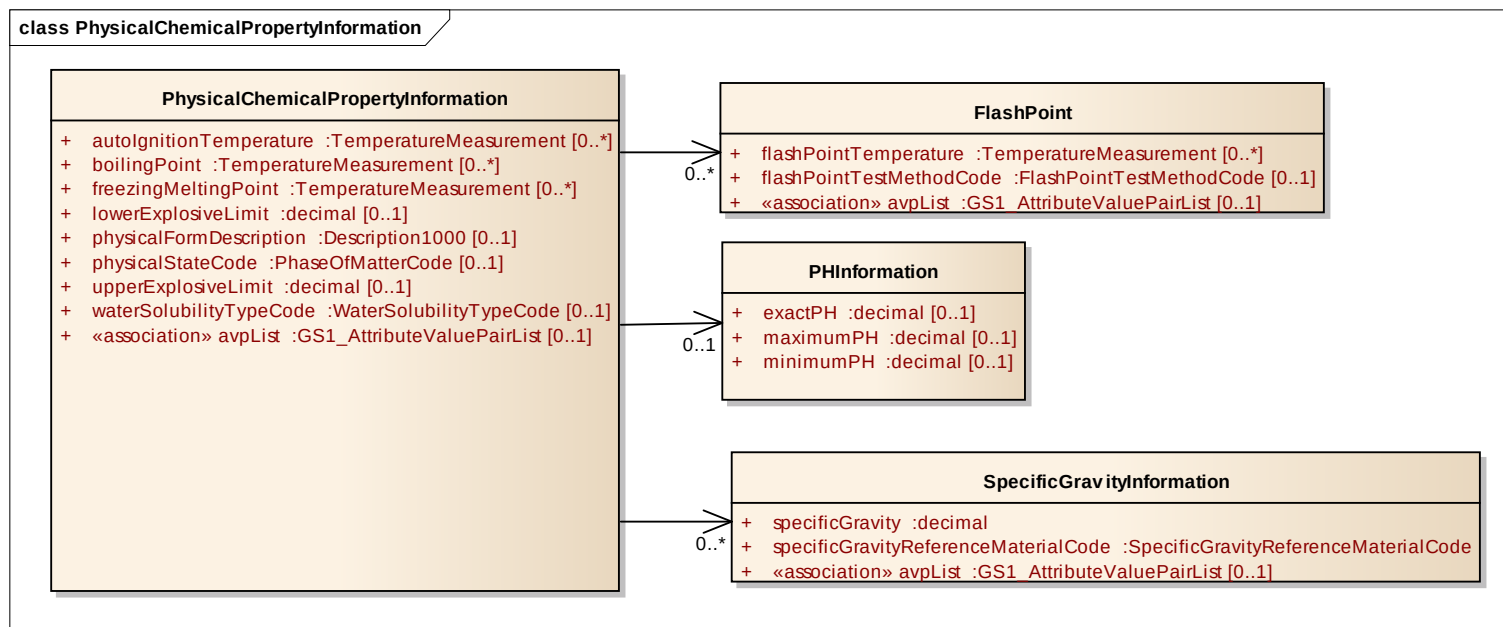


content	attribute / role	datatype /secondary class	multipl icity	definition
GHSDetail				Details related to the Globally Harmonized System of Classification and Labelling of Chemicals.
Association		HazardStateme nt	0..*	Standard phrases describing the nature of a hazard per GHS. Recommend to use GHS Fifth Revised Edition.
Association		PrecautionarySt atement	0..*	Measures listed on a hazardous label to minimize or prevent adverse effects related to GHS. Recommend to use GHS Fifth Revised Edition.
Attribute	gHSSignalWords Code	GHSSignalWor dsCode	0..1	Words such as "Danger" or "Warning" used to emphasize hazards and indicate the relative level of severity of the hazard. For GHS these are assigned to a GHS hazard class and category. Some lower level hazard categories do not use signal words.
Attribute	gHSSymbolDescr iptionCode	GHSSymbolDe scriptionCode	0..*	A code depicting the symbols which convey health, physical and environmental hazard information, assigned to a hazard class and category for example GHS. Pictograms include the harmonized hazard symbols plus other graphic elements, such as borders, background patterns or colours that are intended to convey specific information. Examples of all the pictograms and downloadable files for GHS can be accessed on the UN website for the GHS.
HazardStatem ent				Standard phrases describing the nature of a hazard per GHS.
Attribute	hazardStatement sCode	string	0..1	Standard phrases assigned to a hazard class and category that describe the nature of the hazard for example H200.
Attribute	hazardStatement sDescription	Description100 0	0..*	A description of standard phrases assigned to a hazard class and category that describe the nature of the hazard.
Precautionary Statement				Measures listed on a hazardous label to minimize or prevent adverse effects related to GHS.
Attribute	precautionaryStat ementsCode	string	0..1	Measures listed on a hazardous label to minimize or prevent adverse effects. For GHS, the precautionary statements have been linked to each GHS hazard statement and type of hazard. Precautionary statements for GHS cover prevention, response in cases of accidental spillage or exposure, storage, and disposal..
Attribute	precautionaryStat ementsDescriptio n	Description100 0	0..*	A description of the measures listed on a hazardous label to minimize or prevent adverse effects.

class HazardousWasteInformation**HazardousWasteInformation**

- hazardousWasteAgency :string [0..1] = {1..200}
- hazardousWasteCode :string [0..*] = {1..35}
- hazardousWasteDescription :Description1000 [0..*]
- isAcutelyHazardousWaste :NonBinaryLogicEnumeration [0..1]
- isUniversalWaste :NonBinaryLogicEnumeration [0..1]
- nonhazardousWasteDescription :Description1000 [0..*]

content	attribute / role	datatype /secondary class	multiplicity	definition
HazardousWasteInformation				Information on the hazardous waste classification for a trade item.
Attribute	hazardousWasteAgency	string	0..1	The Agency for the Classification of Hazardous Waste. The specific hazardous waste code for the federal or state regulation that applies to the product for example US EPA.
Attribute	hazardousWasteCode	string	0..*	A classification of hazardous waste managed at the federal or state level for example EPA Hazardous Waste Code of D001 (Ignitable waste).
Attribute	hazardousWasteDescription	Description1000	0..*	A description of the classification of hazardous waste managed at the federal or state level for example EPA Hazardous Waste Code of D001 (Ignitable waste).
Attribute	isAcutelyHazardousWaste	NonBinaryLogicEnumeration	0..1	An indicator whether or not the Trade Item contains wastes that would cause death, disabling personal injury, or serious illness. These wastes are more hazardous than ordinary hazardous wastes.
Attribute	isUniversalWaste	NonBinaryLogicEnumeration	0..1	Indicates if a product can be considered universal waste. Universal waste is defined as "are wastes that do not meet the regulatory definition of hazardous waste, but are managed under special, tailored regulations"
Attribute	nonHazardousWasteDescription	Description1000	0..*	A classification of non-hazardous waste managed at the federal or state level for example a code for disposal of latex paint.



content	attribute / role	datatype /secondary class	multipl icity	definition
PHInformation				PH is defined as the acidity or alkalinity of an aqueous solution. It is defined as the logarithm of the reciprocal of the hydrogenion concentration of a solution. $pH = \log_{10} 1/[H^+]$.
Attribute	exactPH	Decimal	0..1	The exact PH amount for a chemical ingredient (not a range).
Attribute	maximumPH	Decimal	0..1	The maximum range for PH.
Attribute	minimumPH	Decimal	0..1	The minimum range value for PH.
PhysicalChemicalPropertyInformation				Information on Physical or Chemical Properties for a trade item for example water solubility.
Association		PHInformation	0..1	PH is defined as the acidity or alkalinity of an aqueous solution. It is defined as the logarithm of the reciprocal of the hydrogenion concentration of a solution. $pH = \log_{10} 1/[H^+]$.
Association		Flashpoint	0..*	Details on the flash point for a trade item.

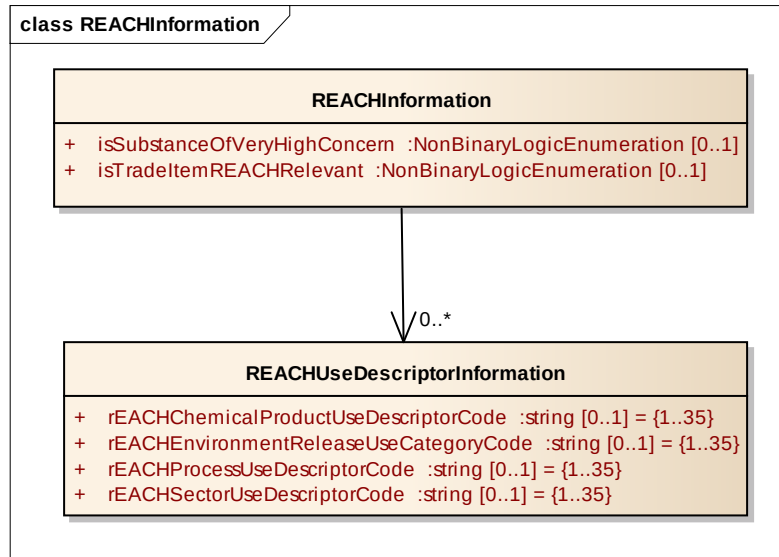
content	attribute / role	datatype /secondary class	multipl icity	definition
Association		SpecificGravityI nformation	0..*	Specific Gravity Information for a trade item.
Attribute	autoIgnitionTemp erature	TemperatureMe asurement	0..*	The lowest temperature at which it will spontaneously ignite in a normal atmosphere without an external source of ignition
Attribute	boilingPoint	TemperatureMe asurement	0..*	The temperature of a liquid at which its vapour pressure is equal to or very slightly greater than the atmospheric pressure of the environment. Note: (For water at sea level it is 100°C (212°F).
Attribute	freezingMeltingPo int	TemperatureMe asurement	0..*	The temperature at which its crystals are in equilibrium with the liquid phase at atmospheric pressure.
Attribute	lowerExplosiveLi mit	Decimal	0..1	The low end value expressed as a percent by volume that the mixture is still flammable.
Attribute	physicalFormDes cription	Description100 0	0..1	A description of the form of the product for example gas, liquid, powder. Colorless, Fragrant, Liquid in relation to any hazardous materials.
Attribute	physicalStateCod e	PhaseOfMatter Code	0..1	Any physical state a chemical ingredient may be in for example LIQUID.
Attribute	upperExplosiveLi mit	Decimal	0..1	The high end value expressed as a percent by volume that the product will still explode.
Attribute	waterSolubilityTy peCode	WaterSolubility TypeCode	0..1	Water solubility is defined as a code indicating solubility in respect to water. Solubility is the ability of a given substance to dissolve in a solvent.
Association	avpList	GS1_AttributeV aluePairList	0..1	Attribute value pair information.
FlashPoint				Details on the lowest temperature at which a substance gives off a sufficient vapor to support combustion.
Attribute	flashPointTemper ature	TemperatureMe asurement	0..*	The lowest temperature at which a substance gives off a sufficient vapor to support combustion. This uses a measurement consisting of a unit of measure and value.
Attribute	flashPointTestMet hodCode	FlashPointTest MethodCode	0..1	The test method used to determine the flash point temperature for example closed cup.
Association	avpList	GS1_AttributeV aluePairList	0..1	Attribute value pair information.
SpecificGravity Information				Specific Gravity is defined as the ratio of the density of a substance to the density of a reference substance. It is an abstract number that is unrelated to any units.

content	attribute / role	datatype /secondary class	multipl icity	definition
Attribute	specificGravity	Decimal	1..1	Specific Gravity is defined as the ratio of the density of a substance to the density of a reference substance expressed as a float. It is an abstract number that is unrelated to any units.
Attribute	specificGravityRe ferenceMaterialC ode	SpecificGravity ReferenceMater ialCode	1..1	The reference material used within the ratio for specific gravity for example water or air.
Association	avpList	GS1_AttributeV aluePairList	0..1	Attribute value pair information.

class ProtectiveEquipment

ProtectiveEquipment
+ protectiveEquipmentAdditionalDescription :Description1000 [0..*] + protectiveEquipmentBodyAreaCode :ProtectiveEquipmentBodyAreaCode [0..*] + protectiveEquipment :Description1000 [0..*] + protectiveEquipmentStatusCode :RecommendedStatusCode [0..1]

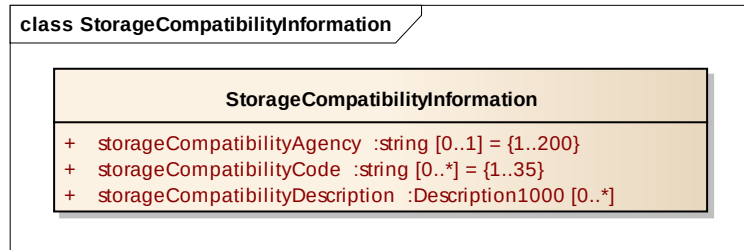
content	attribute / role	datatype /secondary class	multipli ty	definition
ProtectiveEquipmen t				Information on any recommended protective equipment.
Attribute	protectiveEquipmentAd ditionalDescription	Description1000	0..*	Additional information regarding when protective equipment is recommended or required.
Attribute	protectiveEquipment	Description1000	0..*	The manufacturer recommended protective equipment for example protective clothing, helmets, goggles, or other garment designed to protect the wearer's body from chemical exposure.
Attribute	protectiveEquipmentSta tusCode	RecommendedStatus Code	0..1	A code determining whether the protective equipment is recommended or required.
Attribute	ProtectiveEquipmentBo dyAreaCode	ProtectiveEquipment BodyAreaCode	0..*	A code determining the part of the body the protective equipment is meant to protect for example EYE



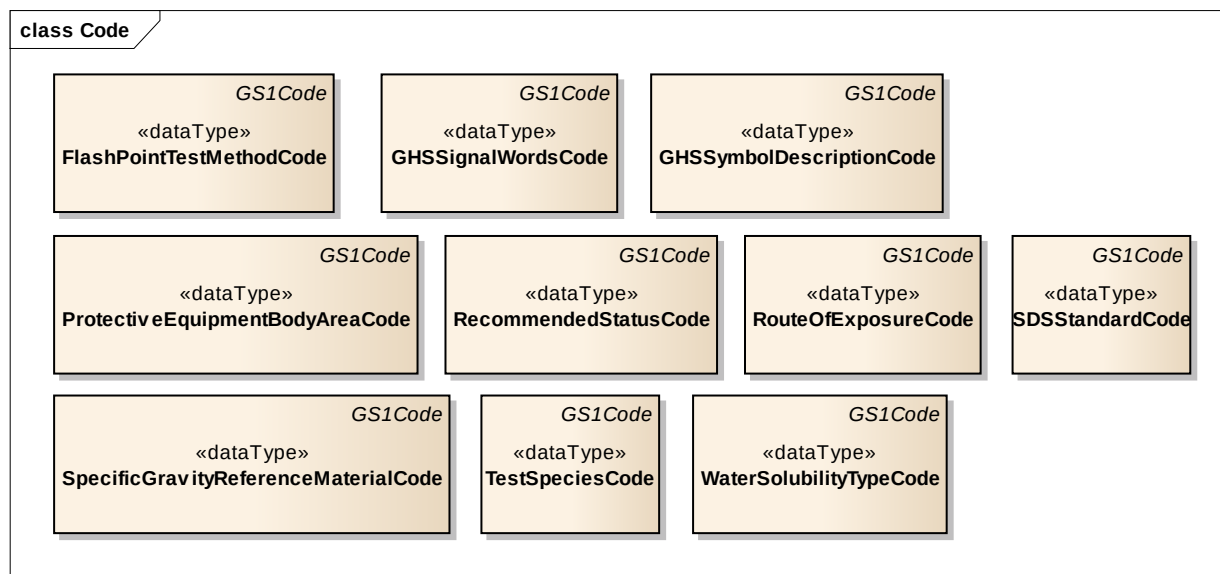
content	attribute / role	datatype /secondary class	multiplicity	definition
REACHInformation				Information on the Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
Association		REACHUseDescriptorInformation	0..*	Details on the trade item in relation to REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals). REACH is a European Union Regulation addressing the production and use of chemical substances and their potential impacts on both human health and the environment.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	isSubstanceOfVeryHighConcern	NonBinaryLogicEnumeration	0..1	An indicator that a trade item contains substances of very high concern (SVHC) according to REACH as defined in as defined in Article 57 of Regulation (EC) No 1907/2006. This indication does not mean the contained substance or substances have been added to the REACH Candidate List. Substances of very high concern (SVHC) are defined as: •Substances that are category 1 and 2 carcinogens, mutagens or toxic to the reproductive system (CMR) •Substances that are persistent, bio-accumulative and toxic (PBT) or very persistent and very bio-accumulative (vPvB) •Substances such as endocrine disrupters, which are demonstrated to be of equivalent concern. For these substances, there are specific requirements under the REACH Regulation.
Attribute	isTradeItemREACHRelevant	NonBinaryLogicEnumeration	0..1	An indicator that the trade item may have ingredients that subject it to REACH.
REACHUseDescriptorInformation				Details on the trade item in relation to REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals). REACH is a European Union Regulation addressing the production and use of chemical substances and their potential impacts on both human health and the environment.
Attribute	rEACHChemicalProductUseDescriptorCode	string	0..1	The types of preparations (mixtures) the substance is contained in end-use. An example of a Reach Chemical Product Descriptor is PC1: Adhesives, sealants.
Attribute	rEACHEnvironmentReleaseUseCategoryCode	string	0..1	The broad conditions of use from the environmental perspective. An example of a REACH Environment Release Category is ERC 3 Formulation in materials.
Attribute	rEACHProcessUseDescriptorCode	string	0..1	The technical process or application in which the substance is used from an occupational perspective. An example of a REACH Process Use Descriptor is PROC 7 Industrial Spraying.

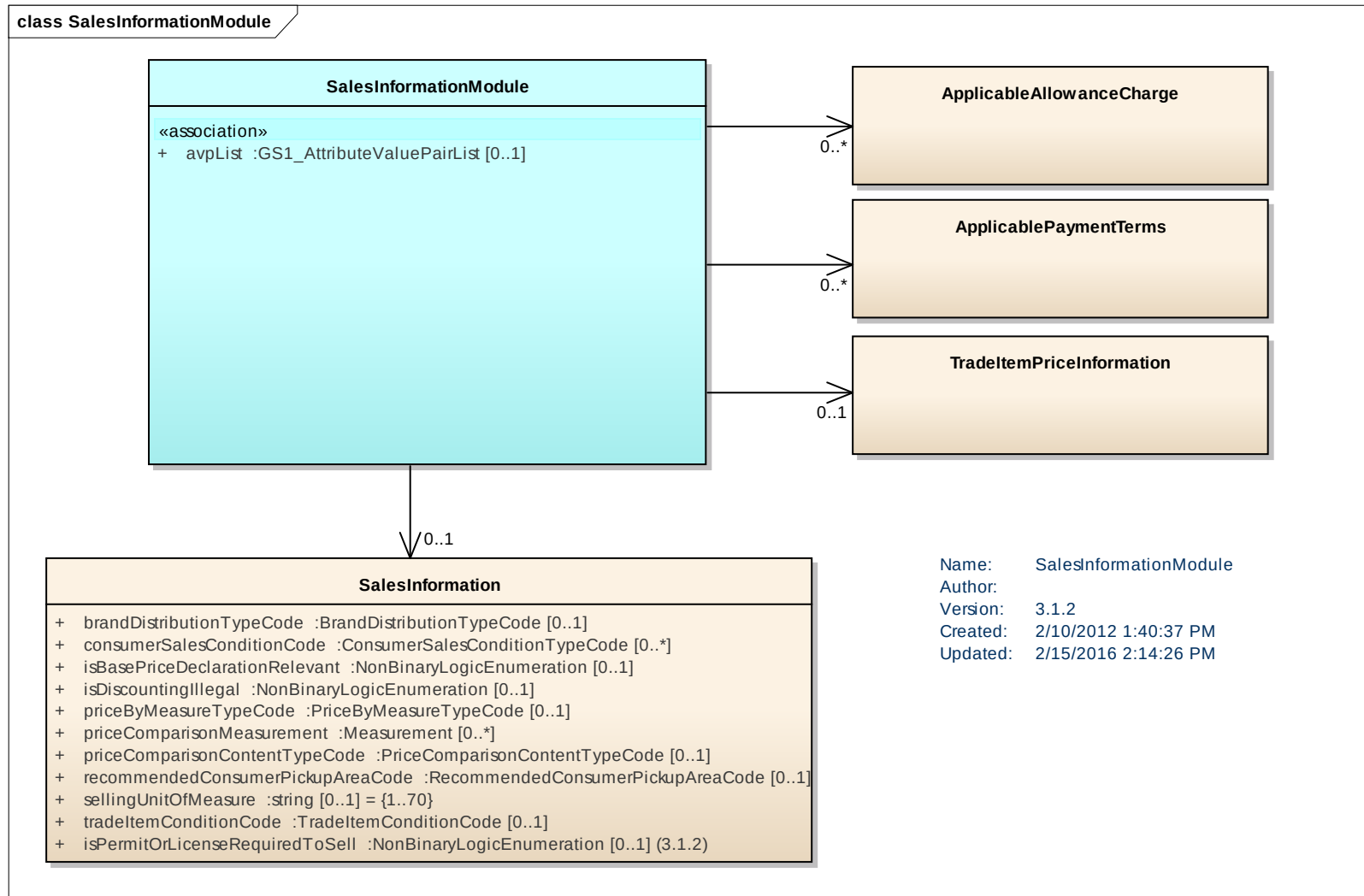
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	reACHSectorUseDescriptorCode	string	0..1	The sector of the economy the substance is used. Use includes manufacture in the chemical industry, mixing of substances at formulator's level as well as industrial, professional and consumer end-uses. An example of a REACH Sector Use Descriptor is SU4 Manufacture of food products.

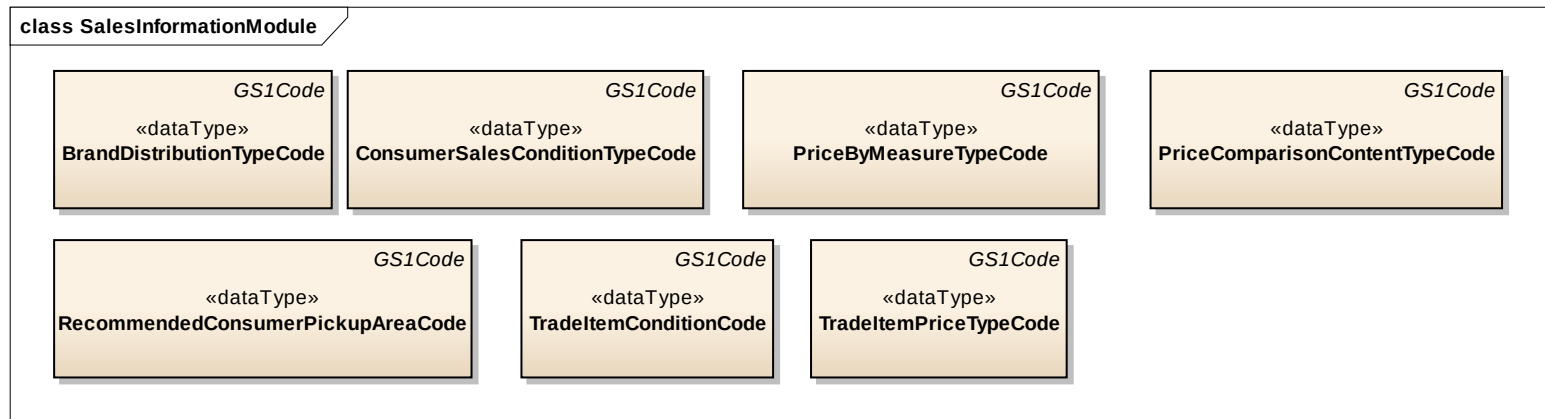


content	attribute / role	datatype /secondary class	multiplicity	definition
StorageCompatibilityInformation				Information on the types of materials that this product cannot be stored with.
Attribute	storageCompatibilityAgency	string	0..1	The agency which maintains a list of storage compatibilities for example NFPA.
Attribute	storageCompatibilityCode	string	0..*	A storage compatibilities expressed as a code.
Attribute	storageCompatibilityDescription	Description1000	0..*	The types of materials that this product cannot be stored with. Incompatible chemicals give an undesired chemical reaction when mixed. This usually refers to substances that will react to cause an imminent threat to health and safety through an explosion, fire, and/or formation of toxic materials.



5.52. Sales Information Module





content	attribute / role	datatype /secondary class	multipli city	definition
SalesInformation				Restrictions or requirements on the retailer for sales of the Trade Item to the consumer.
Attribute	brandDistributionType Code	BrandDistributionT ypeCode	0..1	Any restrictions imposed on the Trade Item on how it can be sold to the consumer or recipient trading partner.
Attribute	consumerSalesCondit ionCode	ConsumerSalesCo nditionTypeCode	0..*	A code depicting restrictions imposed on the Trade Item regarding how it can be sold to the consumer for example age restrictions, selling restrictions.
Attribute	isBasePriceDeclaratio nRelevant	NonBinaryLogicEn umeration	0..1	An indicator whether this item is mandated to have price comparison information included according to country specific pricing directives.
Attribute	isDiscountingIllegal	NonBinaryLogicEn umeration	0..1	An indicator whether or not the product is not legal to discount within a given target market (i.e. the product is subject to government regulation regarding either price floors or pricing practices).
Attribute	isPermitOrLicenseRe quiredToSell	NonBinaryLogicEn umeration	0..1	Indicates if the recipient needs a permit or license to sell the product to consumer.
Attribute	priceByMeasureType Code	PriceByMeasureTy peCode	0..1	Indicator to show how a product is sold.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	priceComparisonMea surement	Measurement	0..*	The quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent. This field is dependent on the population of priceComparisonContentType and is required when priceComparisonContentType is used.
Attribute	priceComparisonCont entTypeCode	PriceComparisonC ontentTypeCode	0..1	Code indicating how the value in Price Comparison Measurement is used to calculate the comparative price, which is printed on shelf labels.
Attribute	recommendedConsu merPickupAreaCode	RecommendedCon sumerPickupAreaC ode	0..1	The recommended placement for the consumer purchase decision point of the item and location within the retail store . For example a potato salad bulk my need to be portioned to a consumer at a service counter as the purchase amount is dependent on what the consumer would like to purchase.
Attribute	sellingUnitOfMeasure	string	0..1	Describes the measurement used for selling unit of the Trade Item to the end consumer. A Trade Item may have only one Unit of Measure.
Attribute	tradeItemConditionCo de	tradeItemCondition Code	0..1	A code depicting the type of preparation that a trade item will have before being sold to the end consumer (e.g. cut for sale, portioned/pieced). This preparation can be done either by the supplier or the retailer or other parties involved. The style of preparation may be determined by either industry standards, the supplier or the retailer.
SalesInformation Module				Sales information regarding price and selling conditions/ restrictions of the Trade Item to the consumer.
Association		ApplicableAllowanc eCharge	0..*	Specifies allowances and charges applicable to a trade item.
Association		ApplicablePayment Terms	0..*	Payment terms and conditions by which a payment can be made for a trade item.
Association		SalesInformation	0..1	Restrictions or requirements on the retailer for sales of the Trade Item to the consumer.
Association		TradeItemPriceInfo rmation	0..1	Provides Price details including effective dates.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.

class **ApplicableAllowanceCharge**

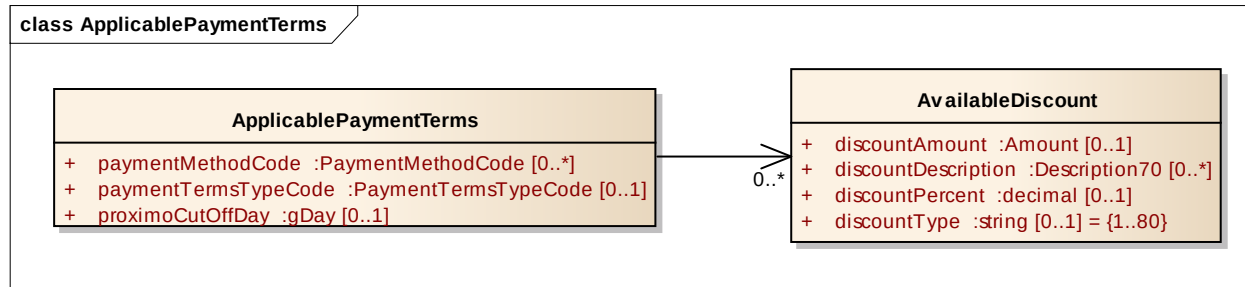
ApplicableAllowanceCharge

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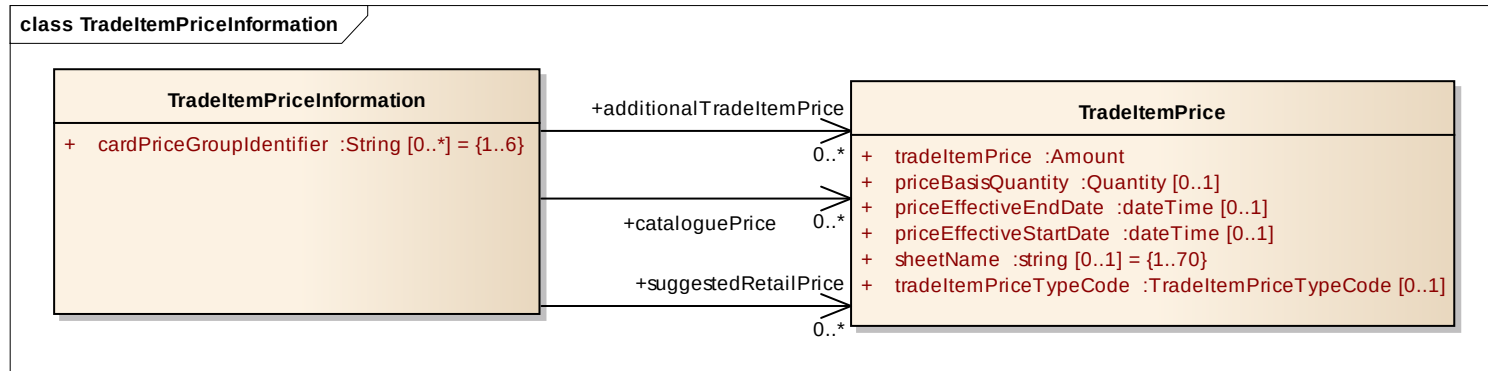
+ allowanceChargeTypeCode :AllowanceChargeTypeCode
+ allowanceOrChargeType :AllowanceOrChargeEnumeration
+ allowanceChargeAmount :Amount [0..1]
+ allowanceChargeDescription :Description70 [0..*]
+ allowanceChargePercentage :decimal [0..1]
+ amountPerUnit :Amount [0..1]
+ baseAmount :Amount [0..1]
+ baseNumberOfUnits :Measurement [0..1]
+ bracketIdentifier :string [0..*] = {1..80}

```

content	attribute / role	datatype /secondary class	multipl city	definition
ApplicableAllowanceCharge				Specifies allowances and charges applicable to a trade item.
Attribute	AllowanceChargeTypeCode	allowanceChargeTypeCode	1..1	The identification of an allowance charge selected from a predefined list.
Attribute	AllowanceOrChargeType	allowanceOrChargeTypeEnumeration	1..1	Code specifying whether this is an allowance or a charge.
Attribute	allowanceChargeAmount	Amount	0..1	Amount of allowance or charge applicable.
Attribute	allowanceChargeDescription	Description70	0..*	A text explanation of the allowance or charge.
Attribute	allowanceChargePercentage	Decimal	0..1	Allowance and charges can be expressed in different ways. By using percentage, they are expressed as a percentage of another amount, e.g. the base amount.
Attribute	amountPerUnit	Amount	0..1	Allowance/charge per unit expressed as an amount.
Attribute	baseAmount	Amount	0..1	The amount on which the calculation of the allowance or charge is based.
Attribute	baseNumberOfUnits	Measurement	0..1	Number of units on which the allowance or charge is based.
Attribute	bracketIdentifier	String	0..*	Identification of the conditions that apply to the allowance or charge.

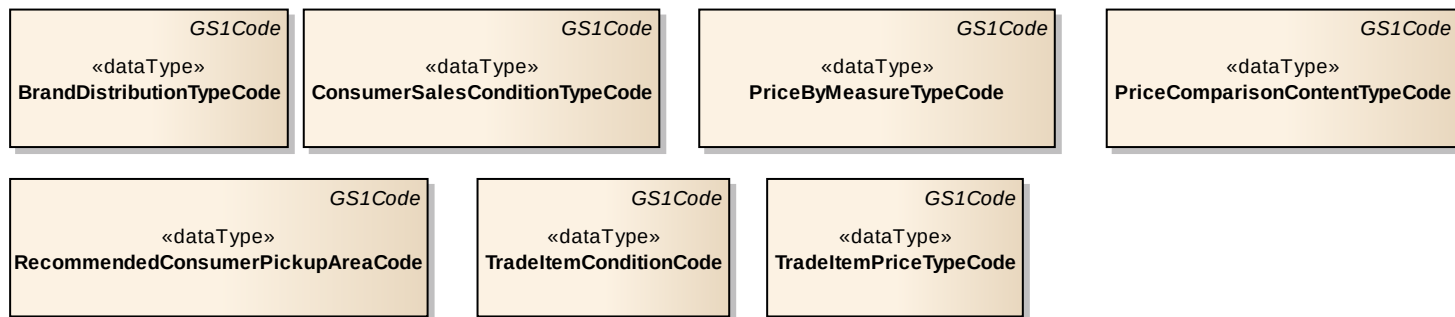


content	attribute / role	datatype /secondary class	multipli city	definition
ApplicablePayme ntTerms				Payment terms and conditions by which a payment can be made for a trade item.
Association		AvailableDiscount	0..*	Additional information on discounts that may be applied to the payment depending on the way the payment is being made for example "2 percent in 10 days, net 30".
Attribute	paymentMethodCode	PaymentMethodCo de	0..*	The payment method used in the payment terms.
Attribute	paymentTermsTypeCode	PaymentTermsTyp eCode	0..1	The type of payment term expressed as a code for example DISCOUNT.
Attribute	proximoCutOffDay	gDay	0..1	The day of the month the payment becomes due.
AvailableDiscount				Information on a discount specified in a payment term. Information on discounts that may be applied to the payment depending on the way the payment is being made for example "2 percent in 10 days, net 30".
Attribute	discountAmount	amount	0..1	The deduction represented as an amount .
Attribute	discountDescription	Description70	0..*	A text field describing the discount.
Attribute	discountPercent	decimal	0..1	The deduction represented as a percentage.
Attribute	discountType	string	0..1	A string value that specifies the type of payment discount for example "2 percent in 10 days, net 30".

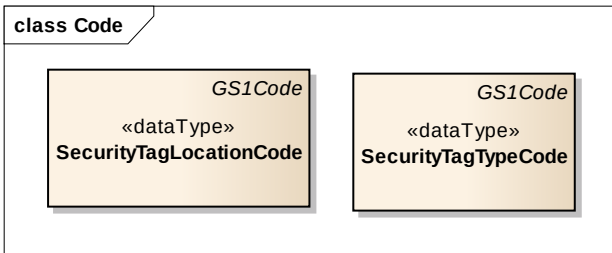
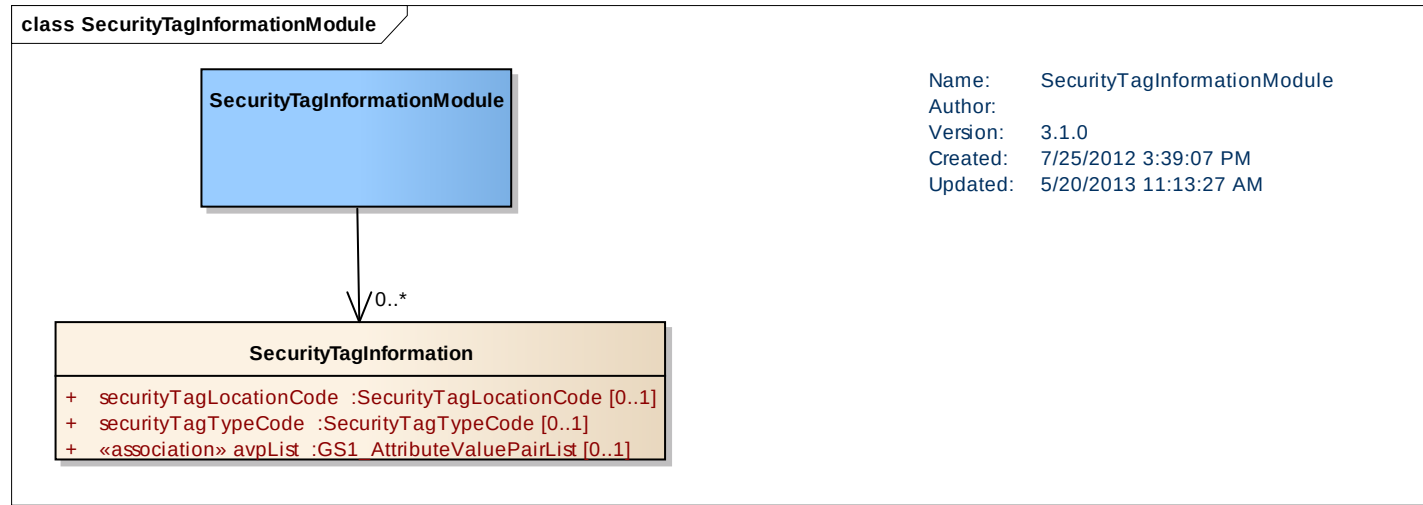


content	attribute / role	datatype /secondary class	multipl city	definition
TradeItemPrice				Provides Price details including effective dates.
Attribute	tradeItemPrice	Amount	1..1	Provides the trade item price value.
Attribute	priceBasisQuantity	quantity	0..1	The price basis quantity is the associated quantity of trade item for which a price is given.
Attribute	priceEffectiveEndDate	dateTime	0..1	The effective end date of the price is optional based upon the agreement by the trading partners. If an invalid end date is communicated, then it is implied that the price and its effective date are effective until further notice. Examples of invalid dates include 99/99/9999, 00/00/0000, blank, etc. These invalid end dates should not be communicated. Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, last order date, last ship date, and last arrival date.
Attribute	priceEffectiveStartDate	dateTime	0..1	This is the effective start date of the price agreed to by the trading partners. This start date is mandatory and, if no end date is communicated, then implies that the price is effective until further notice. Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, first order date, first ship date, and first arrival date.
Attribute	sheetName	string	0..1,	The Price Sheet to which a price belongs. A price list is a list of prices of goods and services which are to be used or supplied during a period of time.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	tradeItemPriceTypeCode	TradeItemPriceTypeCode	0..1	The type price for the item for example catalogue price
TradeItemPriceInformation				Provides Price details including effective dates.
Association	additionalTradeItemPrice	TradeItemPrice	0..*,	Provides Price details including effective dates.
Association	cataloguePrice	TradeItemPrice	0..*	The gross price before application of any discounts, allowances, charges, taxes, etcetera. The value represented is the price that the manufacturer expects to receive for the trade item or service from any buyer prior to any relationship specific negotiations (E.g. a public catalogue population).
Association	suggestedRetailPrice	TradeItemPrice	0..*	The retail (to consumer) price as suggested by the manufacturer. This is normally used to establish a proposed value for the trade item for marketing purposes. May or may not appear on the package.
Attribute	cardPriceGroupIdentifier	string	0..*	A code that identifies a price.

class SalesInformationModule


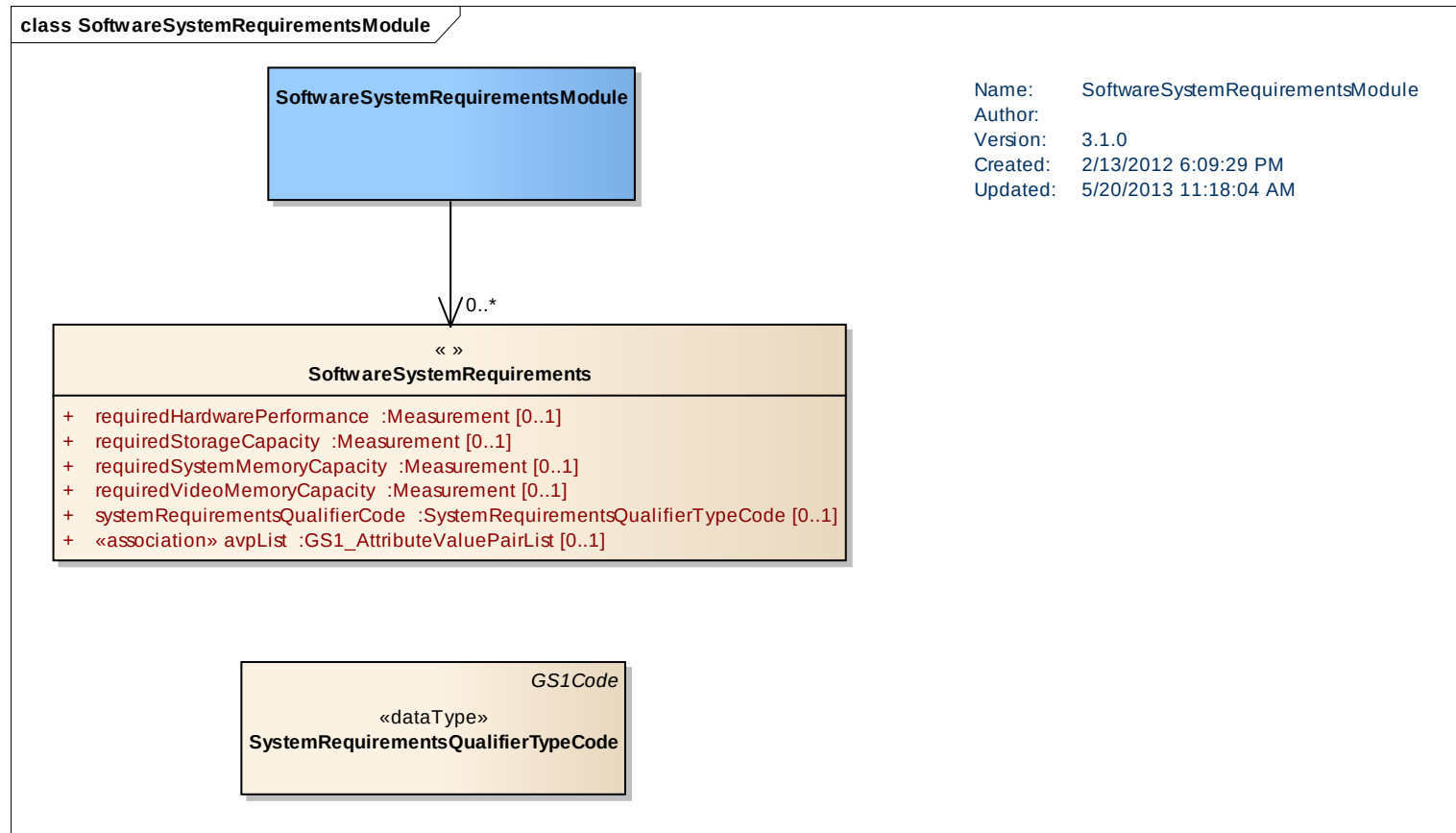
5.53. Security Tag Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
SecurityTagInformation				Information on any security tags that may come with the trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	securityTagLocationCode	SecurityTagLocationCode	0..1	This is a code to indicate where the EAS tag is located on the Trade Item. Values include On outside of Trade Item, Concealed inside Trade Item, Integrated Inside Trade Item.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	securityTagTypeCode	SecurityTagTypeCode	0..1	This is a code to indicate the type of EAS tag located on the Trade Item. Values include Acousto-Magnetic, Electro-Magnetic, Ink or dye, Microwave, Radio Frequency.
SecurityTagInformationModule				Information on any security tags that may come with the trade item.
Association		SecurityTagInformation	0..*	Information on any security tags that may come with the trade item.

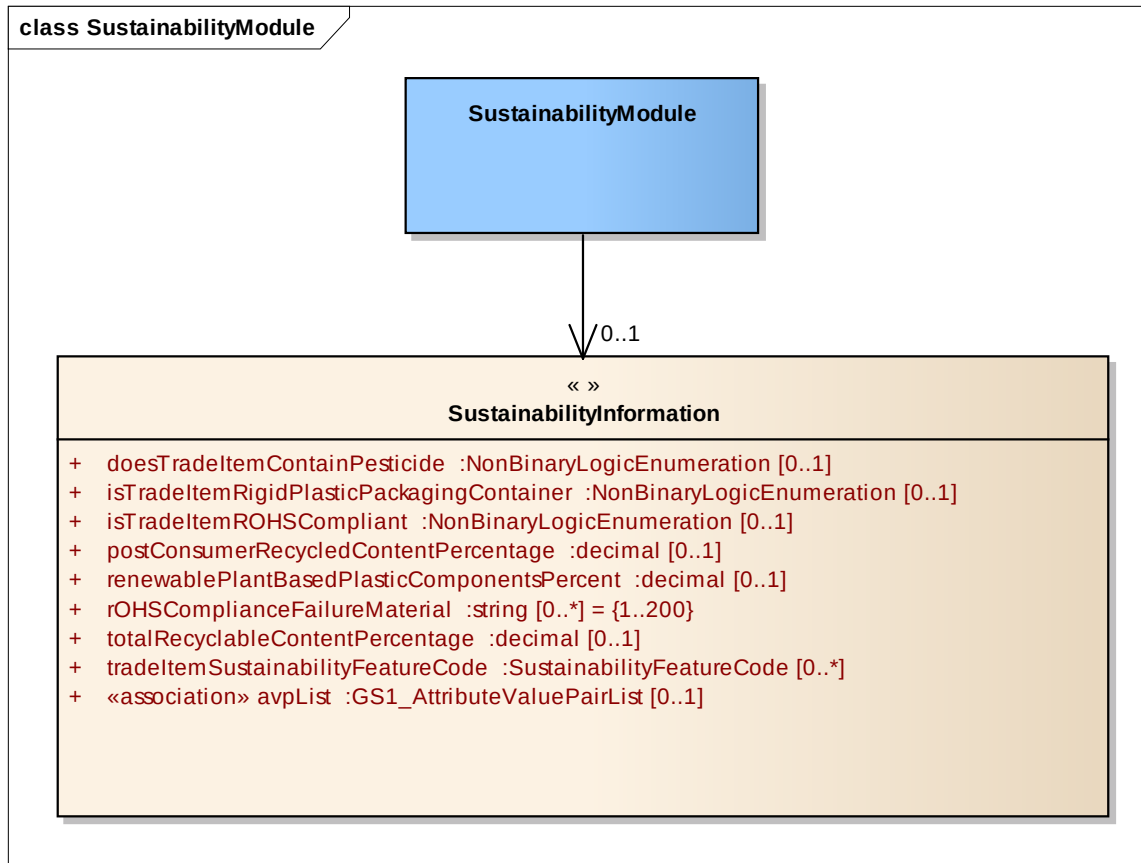
5.54. Software System Requirements Module



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
SoftwareSystemRequirementsModule				A Module with details on any required or recommended system capabilities to run the software.
Association		SoftwareSystemRequirements	0..*	Details on any required or recommended system capabilities to run the software.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
SoftwareSystemRequirements				Details on any required or recommended system capabilities to run the software.
Attribute	requiredHardwarePerformance	Measurement	0..1	The hardware performance required of the system to operate the software defined by the fundamental rate in cycles per second measured in hertz.
Attribute	requiredStorageCapacity	Measurement	0..1	The required data storage capacity required of the system to store the software expressed as megabytes.
Attribute	requiredSystemMemoryCapacity	Measurement	0..1	The temporary system memory capacity required of the system to run the software expressed in megabytes.
Attribute	requiredVideoMemoryCapacity	Measurement	0..1	The video memory capacity required of the system to run the software expressed in megabytes. Video memory is memory dedicated to the purpose of holding the information necessary for a graphics card.
Attribute	systemRequirementsQualifierCode	SystemRequirementsQualifierTypeCode	0..1	A code that determines the type of system performance requirements for example minimum or recommended.

5.55. Sustainability Module

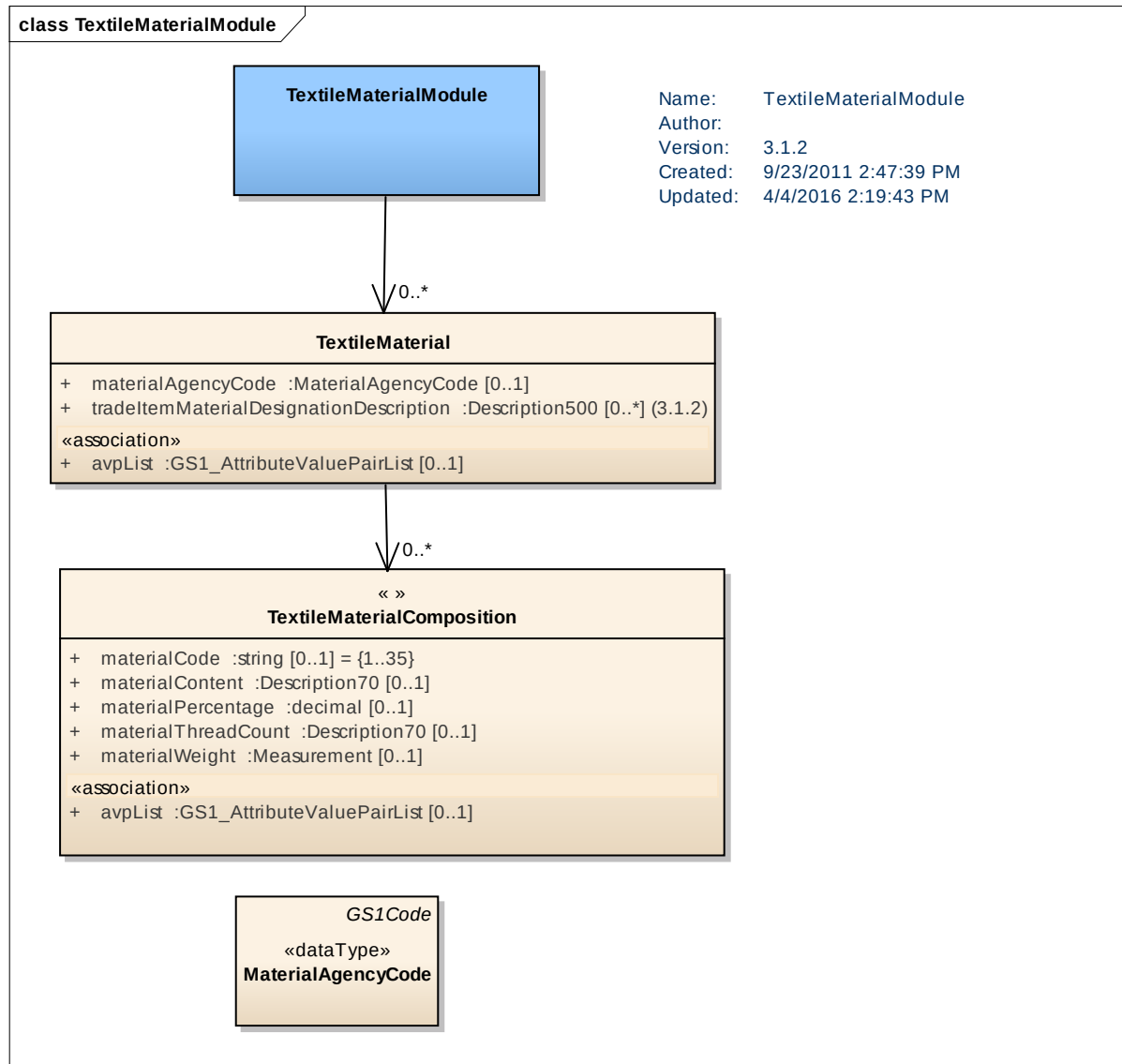


content	attribute / role	datatype /secondary class	multipli city	definition
SustainabilityInfor mation				Properties of the trade item that can affect the ecological or human environment.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	doesTradeItemContainPesticide	NonBinaryLogicEnumeration	0..1	Indicates if the trade item is advertised or labelled as a chemical or contains a chemical that is advertised or labelled to kill, repel or prevent the growth of any living organism.
Attribute	isTradeItemRigidPlasticPackagingContainer	NonBinaryLogicEnumeration	0..1	Indicates that a product is or is contained in a Rigid Plastic Packaging Container (RPPC) as defined by laws in the target market. A Rigid Plastic Packaging Container is a container that is made entirely of plastic, with a capacity between 8 fluid ounces and 5 gallons or the equivalent solid volume, maintains its shape while holding the product, and is capable of multiple re-closures.
Attribute	isTradeItemROHSCompliant	NonBinaryLogicEnumeration	0..1	Indicates if the product is compliant with the European Union RoHS Directive (the restriction of the use of certain hazardous substances in electrical and electronic equipment), a government regulated agency that sets guidelines for product not to contain certain hazardous substances. The RoHS (restriction of the use of certain hazardous substances) bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.
Attribute	postConsumerRecycledContentPercentage	decimal	0..1	Indicates the percentage of post-consumer material used in the trade item. The post-consumer material is collected from recycle bins and used as pulp to make new items. The percentage of post-consumer material is needed to drive whether the recycled logo goes on the item. Some post-consumer material is collected from the recycle bins and used as pulp to make new items.
Attribute	renewablePlantBasedPlasticComponentsPercent	decimal	0..1	The percentage of the plastic components only made from rapidly renewable plant-based material by net weight of product (excludes packaging).
Attribute	roHSComplianceFailureMaterial	string	0..*	The material used in the trade item that does not comply with the ROHS Directives. ROHS is the "restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. Use the ROHSComplianceFailureMaterialCode.

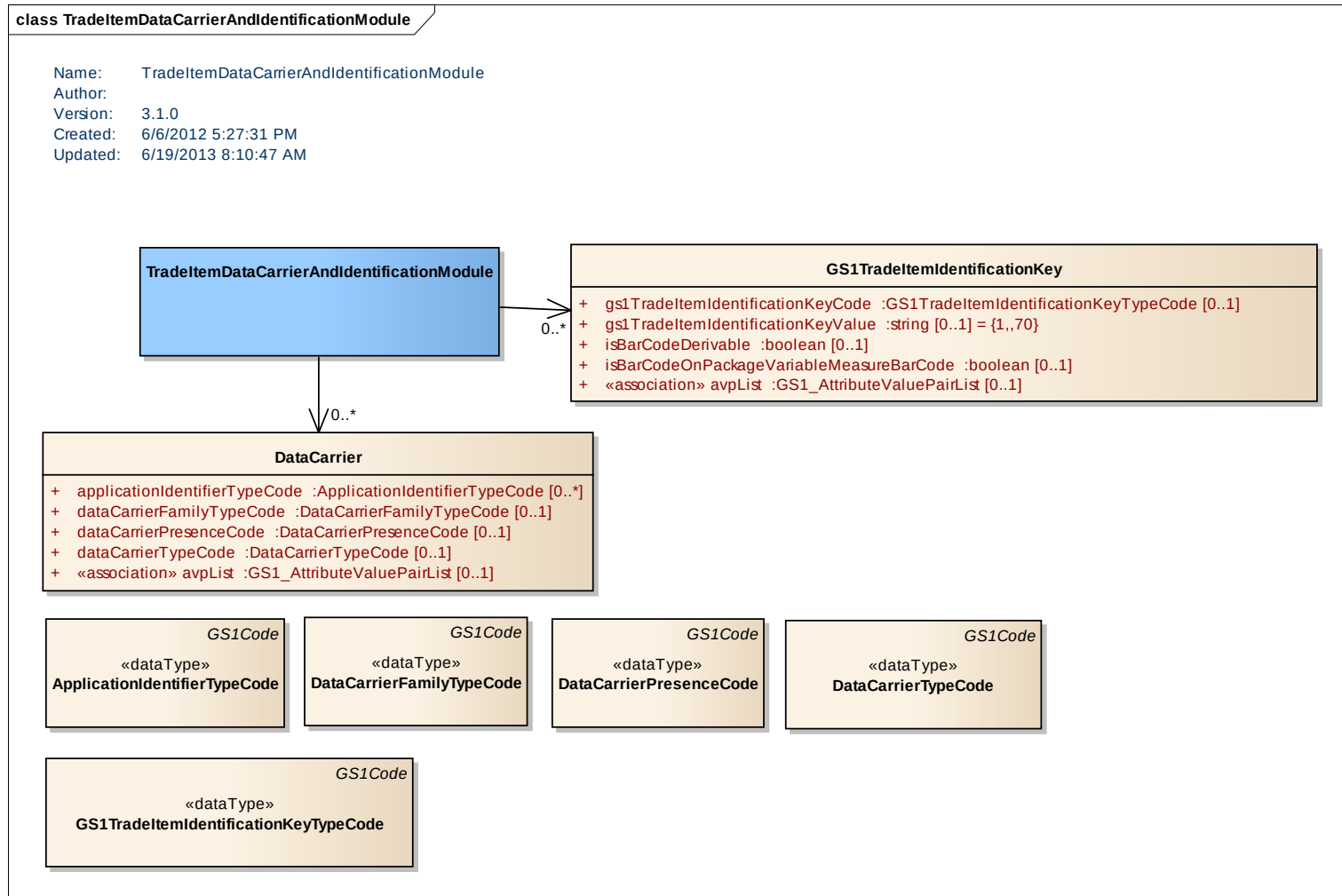
content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	totalRecyclableConte ntPercentage	decimal	0..1	The percentage of all recycled material used to produce the trade item. Drives whether or not you can describe an item as recycled in advertising/marketing. This is the totalled recycled content including percentage of post consumer recycled. It excludes all packaging material.
Attribute	tradeItemSustainabilit yFeatureCode	SustainabilityFeatu reCode	0..*	A feature of the trade item that contributes to sustainability initiatives for example that it is made from renewable materials.
Association		avpList	0..1	Attribute value pair information.
SustainabilityMod ule				Properties of the trade item that can affect the ecological or human environment.
Association		TradeItemSustaina bilityInformation	0..1	Properties of the trade item that can affect the ecological or human environment.

5.56. Textile Material Module



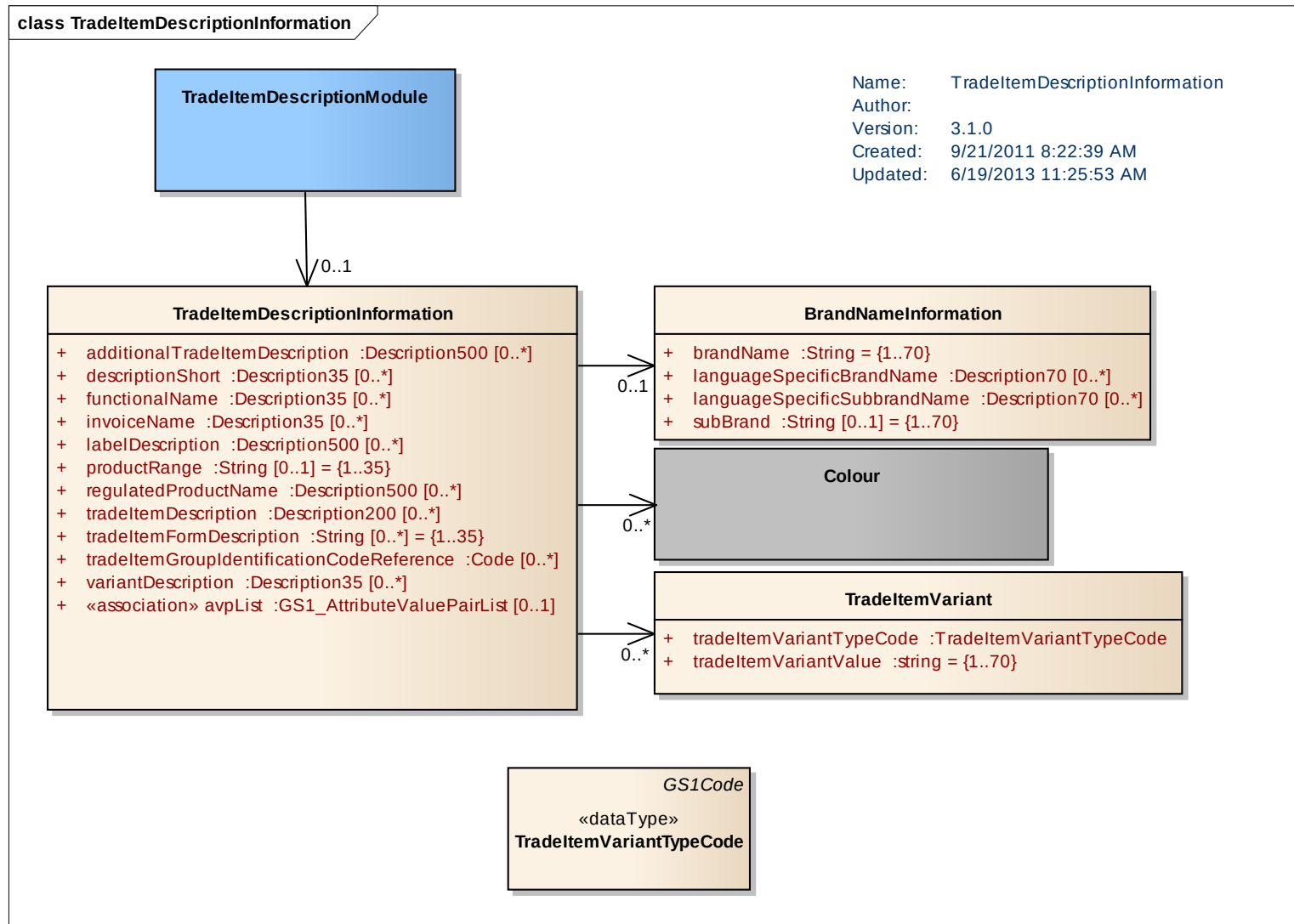
content	attribute / role	datatype /secondary class	multipli city	definition
TextileMaterial				Details on the composition of any materials used to make a trade item using textiles.
Association		TextileMaterialCom position	0..*	Details on the composition of any materials used to make a trade item using textiles.
Attribute	tradeItemMaterialDes ignationDescription	Description500	0..*	The description of the element or place on the trade item, that the material information is being described for example: filling, outer, eyes, trim.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.
Attribute	materialAgencyCode	MaterialAgencyCod e	0..1	This element indicates the agency that is maintaining the Trade Item Material codes. This may include a specific code list.
TextileMaterialMo dule				A module expressing details on the composition of any materials used to make a trade item using textiles for example clothing or furniture.
Association		TradeItemTextileM aterial	0..*	Details on the composition of any materials used to make a trade item using textiles for example clothing or furniture.
TextileMaterialCo mposition				Details on the composition of any materials used to make the trade item.
Attribute	materialCode	string	0..1	This element indicates the product material code that gives the composition of the trade item's first main material up to six material short codes that can be given in descending order of their respective percentages.
Attribute	materialContent	Description70	0..1	This element is used to indicate the material composition. This element is used in conjunction with the percentage.
Attribute	materialPercentage	Decimal	0..1	Net weight percentage of a product material of the first main material. The percentages must add up to 100.
Attribute	materialThreadCount	Description70	0..1	This element is used to specify the quality of material (fab-ric) of a trade item.
Attribute	materialWeight	Measurement	0..1	The measured weight of the material expressed in ounces per square yard or grams per square meter.

5.57. Trade Item Data Carrier And Identification Module



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition
TradeItemDataCarrierAndIdentificationModule				A module containing information on any Data Carriers or GS1 Application Identifiers associated with the trade item.
Association		DataCarrier	0..*	A means to represent data in a machine readable form; used to enable automatic reading of the element strings.
Association		GS1TradeItemIdentificationKey	0..*	Details on additional GS1 trade item identifiers present for the trade item.
DataCarrier				A means to represent data in a machine readable form; used to enable automatic reading of the element strings.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.
Attribute	applicationIdentifierType Code	ApplicationIdentifierType Code	0..*	Indication of which Application Identifier's (AI) presence is indicated for example 10 (batch number),15 (best-before-date),17 (expiry date), 310(n) (net weight in kilogram).
Attribute	dataCarrierFamilyTypeCode	DataCarrierFamilyType Code	0..1	A high-level grouping of data carriers for example GS1 Data Bar.
Attribute	dataCarrierPresenceCode	DataCarrierPresenceCode	0..1	A code that indicates if the trade item has or could have a certain data carrier present.
Attribute	dataCarrierTypeCode	DataCarrierTypeCode	0..1	A code indicating the type of data carrier physically present on the trade item.
GS1TradeItemIdentificationKey				Details on additional GS1 trade item identifiers present for the trade item.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.
Attribute	gs1TradeItemIdentificationKeyCode	gs1TradeItemIdentificationKeyCode	0..1	The Global Trade Item Number which is visible on the item or its packaging and can be used to identify a trade item.
Attribute	gs1TradeItemIdentificationKeyValue	String	0..1	A value for the alternative means to the Global Trade Item Number to identify a trade item.
Attribute	isBarcodeDerivable	Boolean	0..1	A boolean field determining that the data structure on the trade item can be derived from the GTIN.
Attribute	isBarcodeOnPackageVariableMeasureBarcode	Boolean	0..1	An indicator identifying if the bar code that is printed on the trade item package is a variable measure bar code.

5.58. Trade Item Description Module

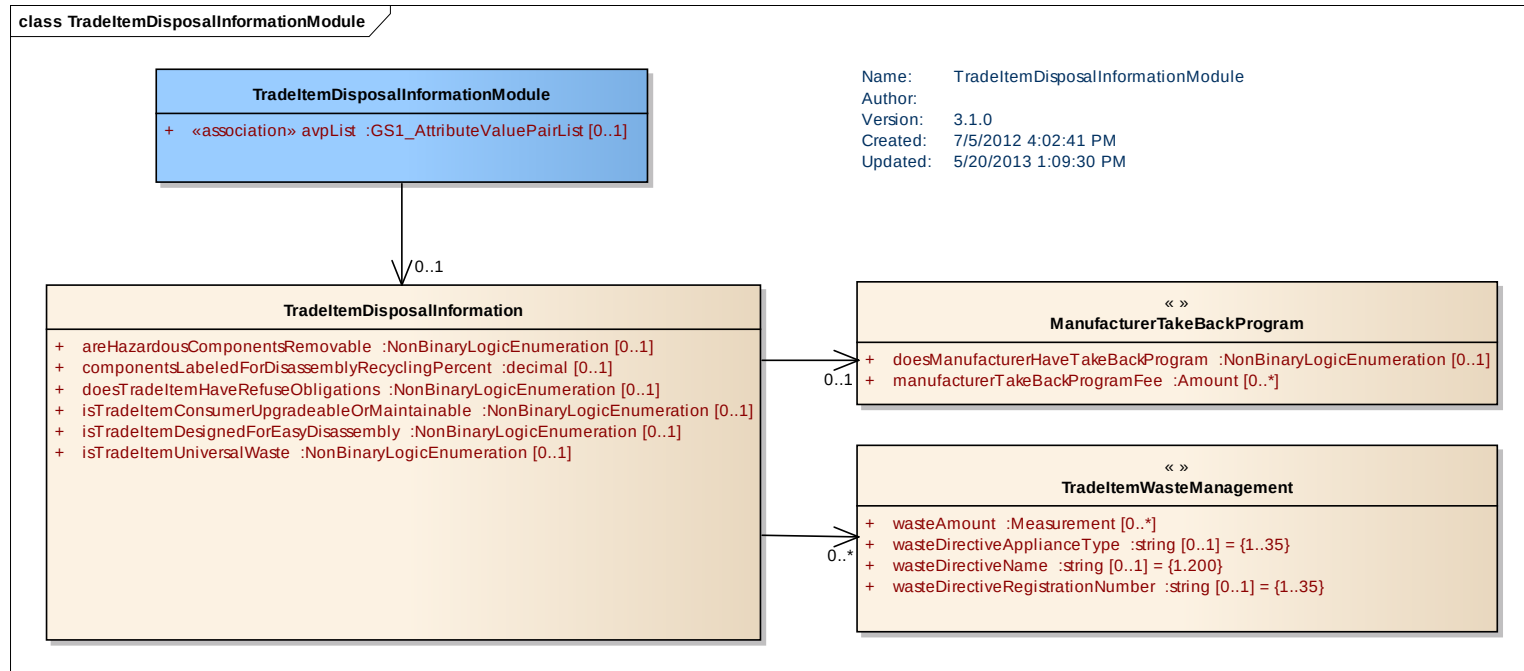


content	attribute / role	datatype /secondary class	multipli city	definition
TradeItemDescriptionModule				A module carrying general descriptions of the trade item including brand, form, variant.
Association		TradeItemDescriptionInformation	0..1	Description Information for the trade item.
TradeItemDescriptionInformation				Description Information for the trade item.
Association		BrandNameInformation	0..1	Information on brands and sub-brands for a trade item.
Association		Colour	0..*	Information specifying a colour in text and / or coded format.
Association		TradeItemVariant	0..*	Provides a code to identify the variant type and name of the product (e.g. Taste, Grape). Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	additionalTradeItemDescription	Description500	0..*	Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Colour, and Fragrance.
Attribute	descriptionShort	Description35	0..*	A free form short length description of the trade item that can be used to identify the trade item at point of sale.
Attribute	functionalName	Description35	0..*	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN.
Attribute	invoiceName	Description35	0..*	Free form information provider assigned trade item description designed to match trade item/service description as noted on invoices.
Attribute	labelDescription	Description500	0..*	A literal reproduction of the text featured on a product's label in the same word-by-word order in which it appears on the front of the product's packaging. This may not necessarily match the GTIN description as loaded by the supplier into the GTIN description field in GDSN.
Attribute	productRange	string	0..1	A name, used by a BrandOwner, that span multiple consumer categories or uses. E.g. (Waist Watchers).

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	regulatedProductNam e	string	0..*	The prescribed, regulated or generic product name or denomination that describes the true nature of the food and is sufficiently precise to distinguish it from other foods according to country specific regulation.
Attribute	tradeItemDescription	Description200	0..*	An understandable and useable description of a trade item using brand and other descriptors. This attribute is filled with as little abbreviation as possible while keeping to a reasonable length. This should be a meaningful description of the trade item with full spelling to facilitate message processing. Retailers can use this description as the base to fully understand the brand, flavour, scent etc. of the specific GTIN in order to accurately create a product description as needed for their internal systems. Examples: GS1 Brand Base Invisible Solid Deodorant AP Stick Spring Breeze GS1 Brand Laundry Detergent Liquid Compact Regular Instant Stain 1 GS1 Brand Hair Colour Liquid Light to Medium Blonde.
Attribute	tradeItemFormDescri ption	string	0..*	The physical form or shape of the product. Used, for example, in pharmaceutical industry to indicate the formulation of the trade item. Defines the form the trade item takes and is distinct from the form of the packaging.
Attribute	tradeItemGroupIdentif icationCodeReferenc e	Code	0..*	A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.
Attribute	variantDescription	Description35	0..*	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.
BrandNameInform ation				Information on brands and sub-brands for a trade item.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	brandName	string	1..1	The recognisable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer.
Attribute	languageSpecificBrandName	Description70	0..*	The recognisable name used by a brand owner to uniquely identify a line of trade item or services expressed in a different language than the primary brand name (brandName).
Attribute	languageSpecificSub brandName	Description70	0..*	A second level of brand expressed in a different language than the primary sub-brand name (subBrand).
Attribute	subBrand	string	0..1	Second level of brand. Can be a trademark. It is the primary differentiating factor that a brand owner wants to communicate to the consumer or buyer. E.g. Yummy-Cola Classic. In this example Yummy-Cola is the brand and Classic is the subBrand.
TradeItemVariant				Provides a code to identify the variant type and name of the product (e.g. Taste, Grape). Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste.
Attribute	tradeItemVariantType Code	TradeItemVariantT ypeCode	1..1	Provides a code to identify the variant type of the product (e.g. Flavour).
Attribute	tradeItemVariantValue	string	1..1	The variant value for a variant type (e.g. Grape).

5.59. Trade Item Disposal Information Module

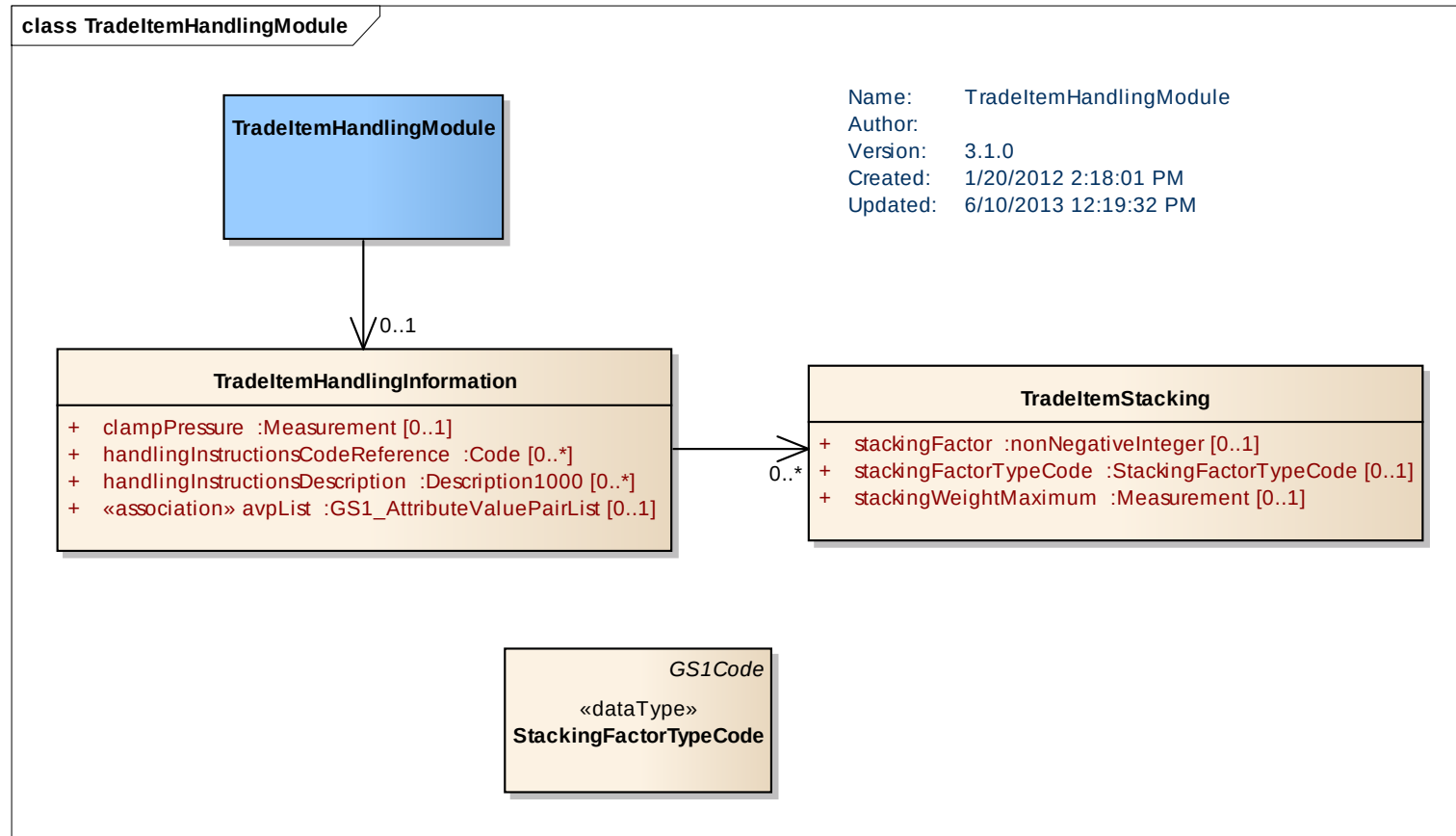


content	attribute / role	datatype /secondary class	multiplicity	definition
ManufacturerTakeBackProgram				Details on any take back program offered to consumers for the product to be reused, re-manufactured or recycled by the manufacturer.
Attribute	doesManufacturerHaveTakeBackProgram	NonbinaryLogicEnumeration	0..1	Indicates if the manufacturer of the trade item offers any take back programs to consumers for the product to be reused, re-manufactured or recycled by the manufacturer.
Attribute	manufacturerTakeBackProgramFee	Amount	0..*	The fee the consumer must pay the manufacturer to take back the product.
TradeItemDisposalInformation				Information on the disposal of the trade item for the purposes of sustainability.

content	attribute / role	datatype /secondary class	multiplicity	definition
Association		ManufacturerTakeBackProgram	0..1	Details on any take back program offered to consumers for the product to be reused, re-manufactured or recycled by the manufacturer.
Association		TradeItemWasteManagement	0..*	Information on waste management for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	areHazardousComponentsRemovable	NonbinaryLogicEnumeration	0..1	An indicator if any hazardous components contained within the trade item can easily be separated from the other materials to facilitate product recycling.
Attribute	componentsLabeledForDisassemblyRecyclingPercent	decimal	0..1	The percentage of trade item components that clearly label how to facilitate product disassembly and recycling. For example if the product is a VCR and remote control and the remote control is labelled for recycling, but the VCR is not the percentage equals 50.
Attribute	doesTradeItemHaveRefuseObligations	NonbinaryLogicEnumeration	0..1	Indicates if there are special disposal obligations that apply to the trade item for example INTRASTAT.
Attribute	isTradeItemConsumerUpgradeableOrMaintainable	NonbinaryLogicEnumeration	0..1	Indicates if a product can be easily upgraded or have parts replaced by the consumer. For example, the ability to add additional memory/storage capacity or access and replace chargeable batteries.
Attribute	isTradeItemDesignedForEasyDisassembly	NonbinaryLogicEnumeration	0..1	Indicates that the trade item is designed for easy disassembly by recycling facilities using standard industry tools.
Attribute	isTradeItemUniversalWaste	NonbinaryLogicEnumeration	0..1	Indicates if a product can be considered universal waste. Universal waste is defined as "wastes that do meet the regulatory definition of hazardous waste, but are managed under special, tailored regulations.
TradeItemDisposalInformationModule				Information on the disposal of the trade item for the purposes of sustainability.
Association		TradeItemDisposalInformation	0..1	Information on the disposal of the trade item for the purposes of sustainability.
TradeItemWasteManagement				Information on waste management for a trade item.
Attribute	wasteAmount	Measurement	0..*	The amount of the components contained in the trade item that are covered by a waste directive for example WEEE.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	wasteDirectiveApplianceType	string	0..1	The category of electrical and electronic equipment containing components covered by a waste directive for example WEEE.
Attribute	wasteDirectiveName	string	0..1	The name of a waste directive for example WEEE.
Attribute	wasteDirectiveRegistrationNumber	string	0..1	A registration number for a trade item required by a waste directive (e.g. WEEE).

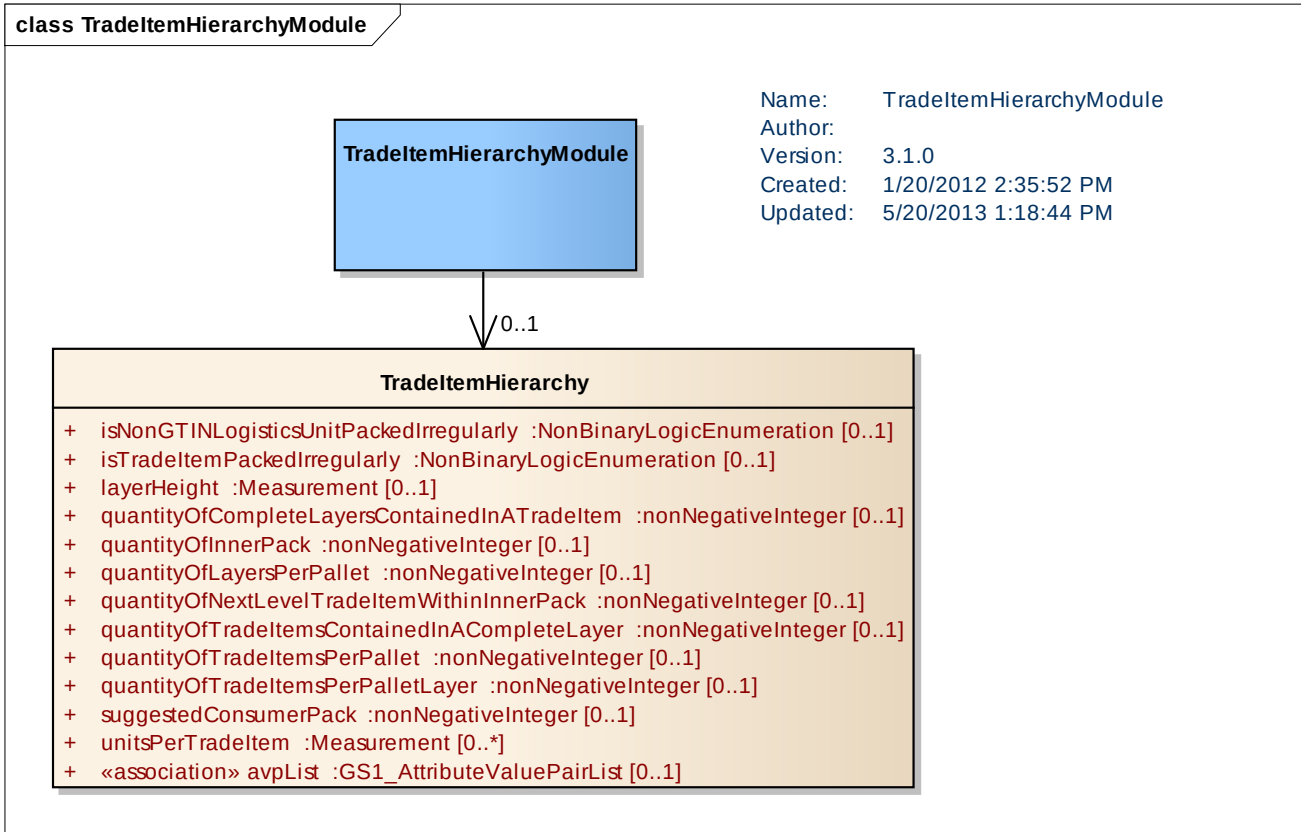
5.60. Trade Item Handling Module



content	attribute / role	datatype /secondary class	multipli city	definition
TradelItemStackin g				Information on the stacking for a trade item in the supply chain..
Attribute	stackingFactor	nonNegativeIntege r	0..1	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	stackingFactorTypeCode	StackingFactorTypeCode	0..1	Indicates the supply chain process that the particular product may be stacked in. From a supply chain perspective these values can differ from a storage perspective, truck transport, rail, etc. If a retailer is shipping between warehouses or store, they need the information to support their supply chain. For example a truck can only be stack 2 pallets high, but in a warehouse that can be 3 pallets
Attribute	stackingWeightMaximum	Measurement	0..1	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other.
TradeItemHandlingInformation				Instruction on the way to treat goods during transport and storage.
Association		TradeItemStacking	0..*	Information on the stacking for a trade item in the supply chain.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	clampPressure	Measurement	0..1	The pressure that should be applied by a clamp to the packaging around the product.
Attribute	handlingInstructionsCode	Code	0..*	Defines the information and processes needed to safely handle the trade item.
Attribute	handlingInstructionsDescription	Description1000	0..*	Information and processes needed to safely handle the trade item. Intended to be sent when handling Instructions Code and agency have not been provided.
TradeItemHandlingModule				A module containing instructions on the way to treat goods during transport and storage.
Association		TradeItemHandlingInformation	0..1	Instruction on the way to treat goods during transport and storage.

5.61. Trade Item Hierarchy Module

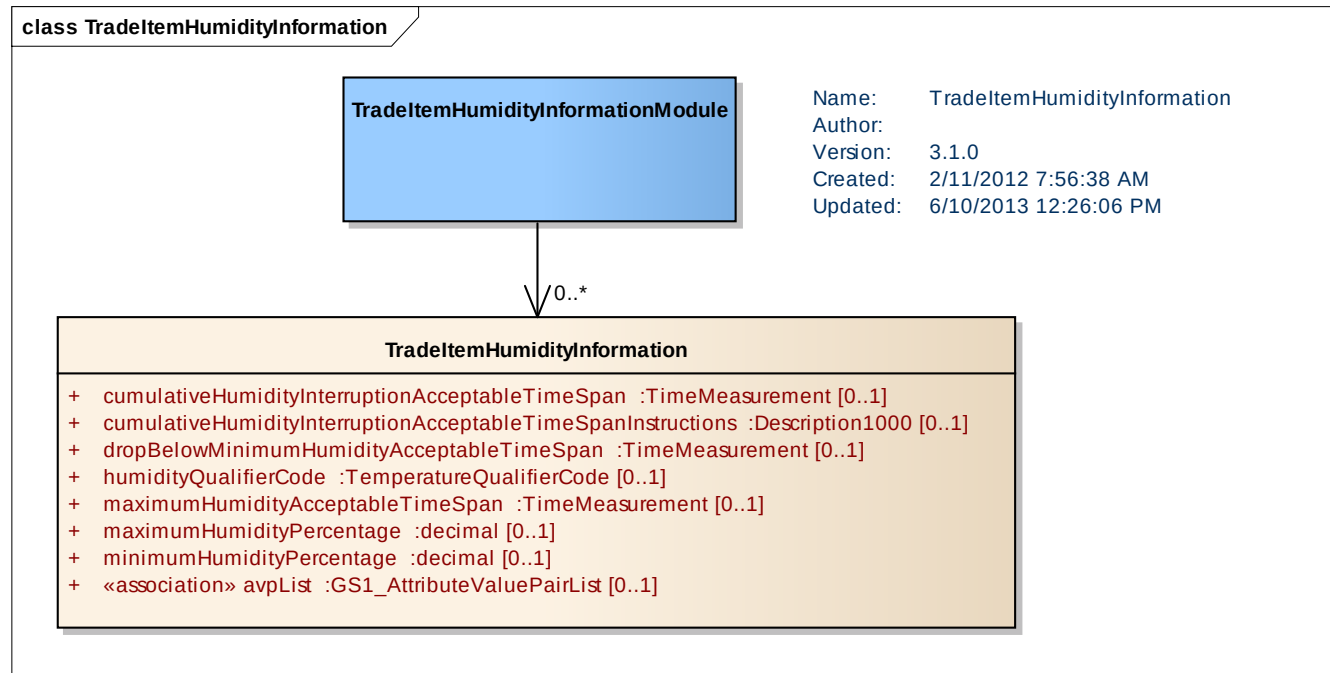


content	attribute / role	datatype /secondary class	multipli city	definition
TradeItemHierarc hy				Information on how the hierarchical structure of a trade item for example number of layers on a pallet.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.

content	attribute / role	datatype /secondary class	multipl city	definition
Attribute	isNonGTINLogisticsUnitPackedIrregularly	NonBinaryLogicEnumeration	0..1	Indicates that the Non-GTIN Logistic Unit is packed in a non-rectilinear pattern such that it is not meaningful to send the number of child trade items in the width/depth/height.
Attribute	isTradeItemPackedIrregularly	NonBinaryLogicEnumeration	0..1	Indicates that the item is packed in a non-rectilinear pattern such that it is not meaningful to send the number of child trade items in the width/depth/height.
Attribute	layerHeight	Measurement	0..1	The height of each layer of child trade items when packed in layers. This attribute may be used when child items are packed in layers, but the child items are not packed on their natural base.
Attribute	quantityOfCompleteLayersContainedInATradeItem	nonNegativeInteger	0..1	The number of layers of the base trade item found in a trade item. Does not apply to the base trade item unit.
Attribute	quantityOfInnerPack	nonNegativeInteger	0..1	Indicates the number of non-GTIN assigned inner-packs of next lower level trade items within the current GTIN level.
Attribute	quantityOfLayersPerPallet	nonNegativeInteger	0..1	The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.
Attribute	quantityOfNextLevelTradeItemWithinInnerPack	nonNegativeInteger	0..1	Indicates the number of next lower level trade items contained within the physical non-GTIN assigned each or inner-packs (inner-pack).
Attribute	quantityOfTradeItemsContainedInACompleteLayer	nonNegativeInteger	0..1	The number of trade items contained in a complete layer of a higher packaging configuration. Used in hierarchical packaging structure of a trade item. Cannot be used for trade item base unit.
Attribute	quantityOfTradeItemsPerPallet	nonNegativeInteger	0..1	The number of trade items contained in a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet according to supplier or retailer preferences.
Attribute	quantityOfTradeItemsPerPalletLayer	nonNegativeInteger	0..1	The number of trade items contained on a single layer of a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet layer according to supplier or retailer preferences.
Attribute	suggestedConsumerPack	nonNegativeInteger	0..1	The pack quantity of an item which aligns to the suggested consumer pack.
Attribute	unitsPerTradeItem	Measurement	0..*	Numeric value to indicate number of physical pieces used to make up the Consumer Unit. Used if there is more than one piece in one Trade Item.

content	attribute / role	datatype /secondary class	multipli city	definition
TradeItemHierarchyModule				A module containing information on how the hierarchical structure of a trade item for example number of layers on a pallet.
Association		TradeItemHierarchy	0..1	Information on how the hierarchical structure of a trade item for example number of layers on a pallet.

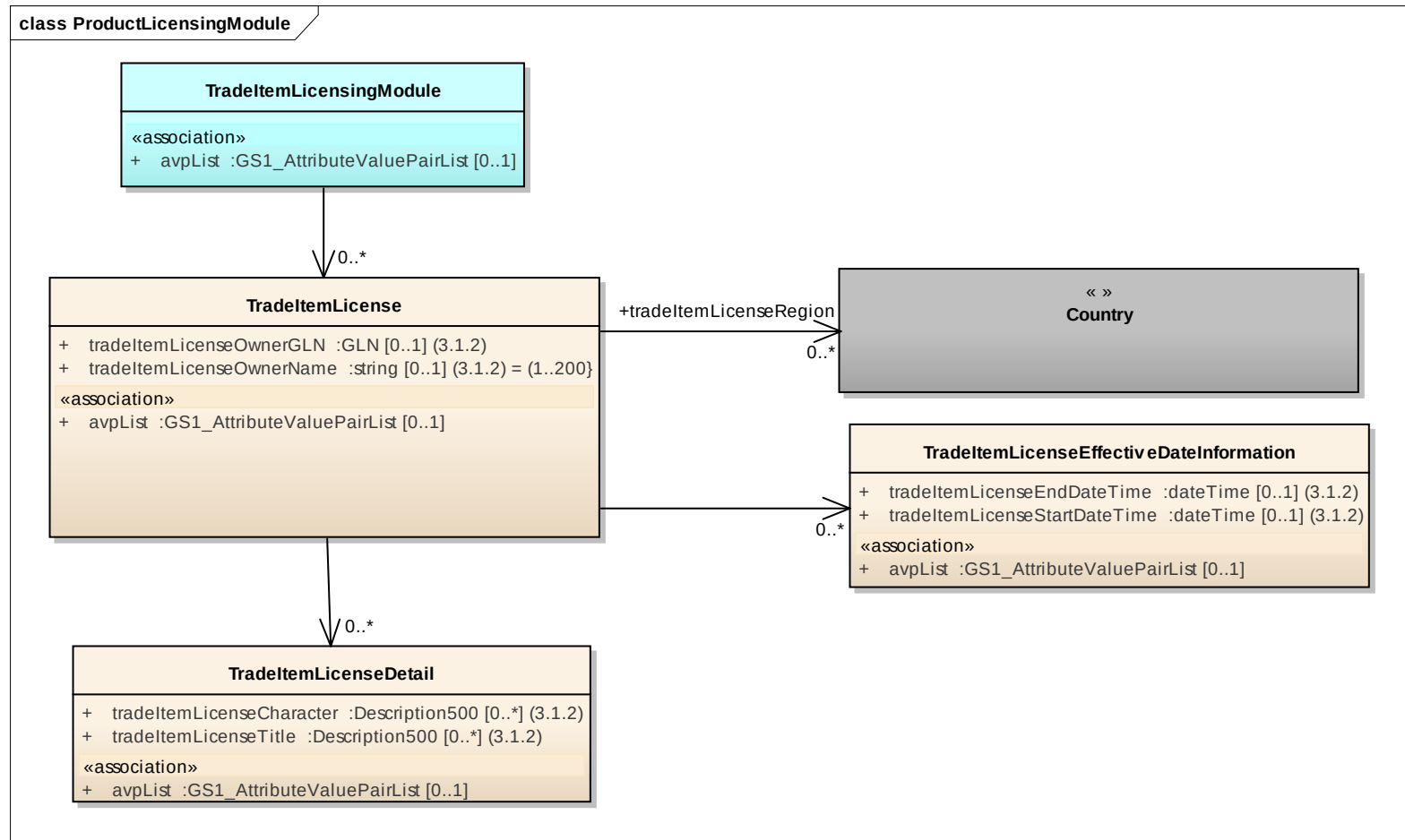
5.62. Trade Item Humidity Information Module



content	attribute / role	datatype /secondary class	multipli city	definition
TradeItemHumidityInformation				Information on permissible humidity of a trade item during various points of the supply chain.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	cumulativeHumidityInterruptionAcceptableTimeSpan	TimeMeasurement	0..1	An expression of the maximum allowed cumulative time span of one or more humidity interruptions of a trade item as defined by the manufacturer.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	cumulativeHumidityIn terruptionAcceptable TimeSpanInstructions	Description1000	0..1	Instructions provided by the product manufacturer regarding the process, procedures, or handling instructions for trade items that has exceeded the cumulative time span of humidity interruptions.
Attribute	dropBelowMinimumH umidityAcceptableTi meSpan	TimeMeasurement	0..1	The amount of time that a product can fall below the minimum humidity threshold as defined by the manufacturer without affecting product safety or quality.
Attribute	humidityQualifierCod e	TemperatureTypeQ ualifierCode	0..1	Code qualifying the type of a humidity for example STORAGE.
Attribute	maximumHumidityAc ceptableTimeSpan	TimeMeasurement	0..1	The amount of time that a product can safely rise above the maximum humidity threshold as defined by the manufacturer without affecting product safety or quality.
Attribute	maximumHumidityPe rcentage	Decimal	0..1	The maximum humidity in percentages that the goods should be stored in.
Attribute	minimumHumidityPer centage	Decimal	0..1	The minimum humidity in percentages that the goods should be stored in
TradeItemHumidit yInformationModul e				A module containing information on permissible humidity of a trade item during various points of the supply chain.
Association		TradeItemHumidityI nformation	0..*	Information on permissible humidity of a trade item during various points of the supply chain.

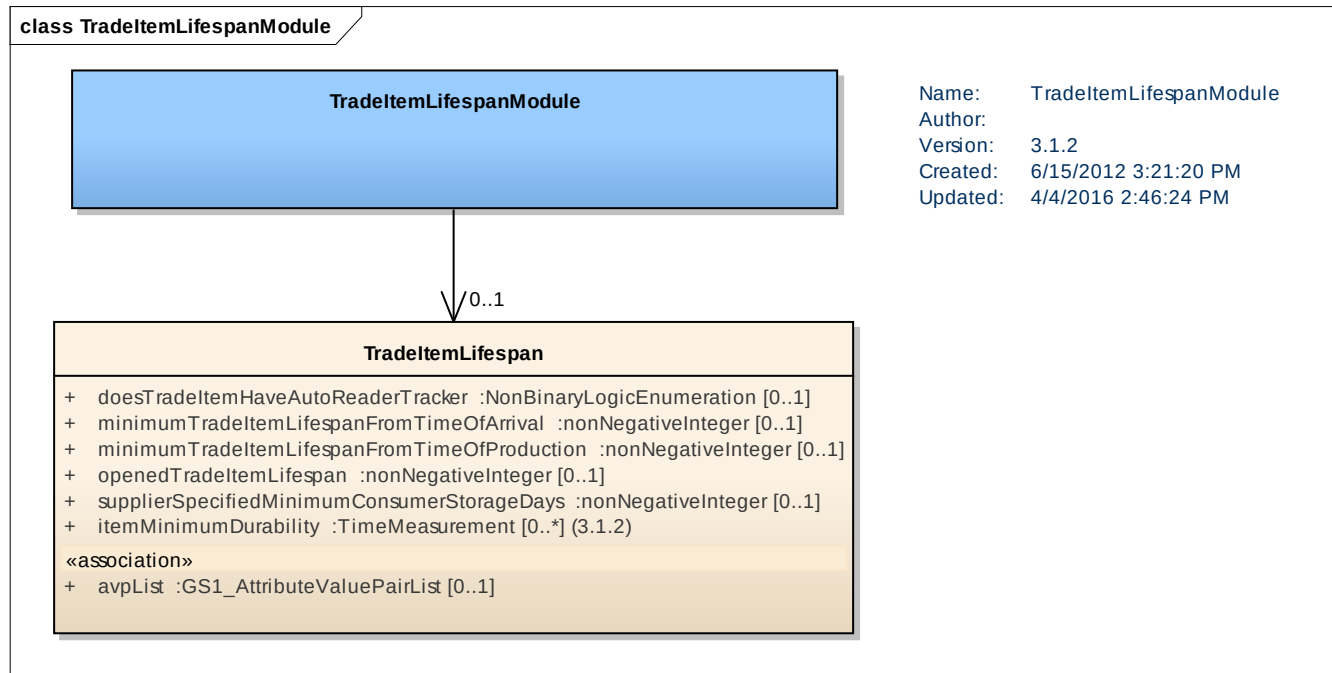
5.63. Trade Item Licensing Module



content	attribute / role	datatype /secondary class	multiplcity	definition
TradeItemLicense				A license to use the title, character or any trademarked assets that are used on the trade item.
Association		TradeItemLicenseDetail	0..*	Licensing information for a trade item.
Association		TradeItemLicenseEffectiveDateInformation	0..*	Provides the effective dates for a license to use the title, character or any trademarked assets that are used on the trade item.
Association	tradeItemLicenseRegion	Country	0..*	The region the license to use the title, character or any trademarked assets that are used on the trade item is only valid in.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	tradeItemLicenseOwnerGLN	GLN	0..1	The GLN of the owner of the licensed product that is allowing the trading partner to use their licensed name and/or images.
Attribute	tradeItemLicenseOwnerName	string	0..1	The name of the owner of the licensed product that is allowing the trading partner to use their licensed name and/or images.
TradeItemLicenseDetail				Provides detail on for a specific product license.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	tradeItemLicenseCharacter	Description500	0..*	The character of the licensed trademark asset that is used on the trade item.
Attribute	tradeItemLicenseTitle	Description500	0..*	The title of the licensed trademark asset that is used on the trade item.
TradeItemLicenseEffectiveDateInformation				Provides the effective dates for a license to use the title, character or any trademarked assets that are used on the trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	tradeItemLicenseEndDateTime	dateTime	0..1	The effective end date of the license to use the title, character or any trademarked assets that are used on the trade item.
Attribute	tradeItemLicenseStartTimeTime	dateTime	0..1	The effective start date of the license to use the title, character or any trademarked assets that are used on the trade item.
TradeItemLicensingModule				A module for sending license information in relation to title, character or any trademarked assets that are used on the trade item.
Association		TradeItemLicense	0..*	License information in relation to title, character or any trademarked assets that are used on the trade item.

content	attribute / role	datatype /secondary class	multipli city	definition
Association	avpList	GS1_Attribute ValuePairList	0..1	Attribute value pair information.

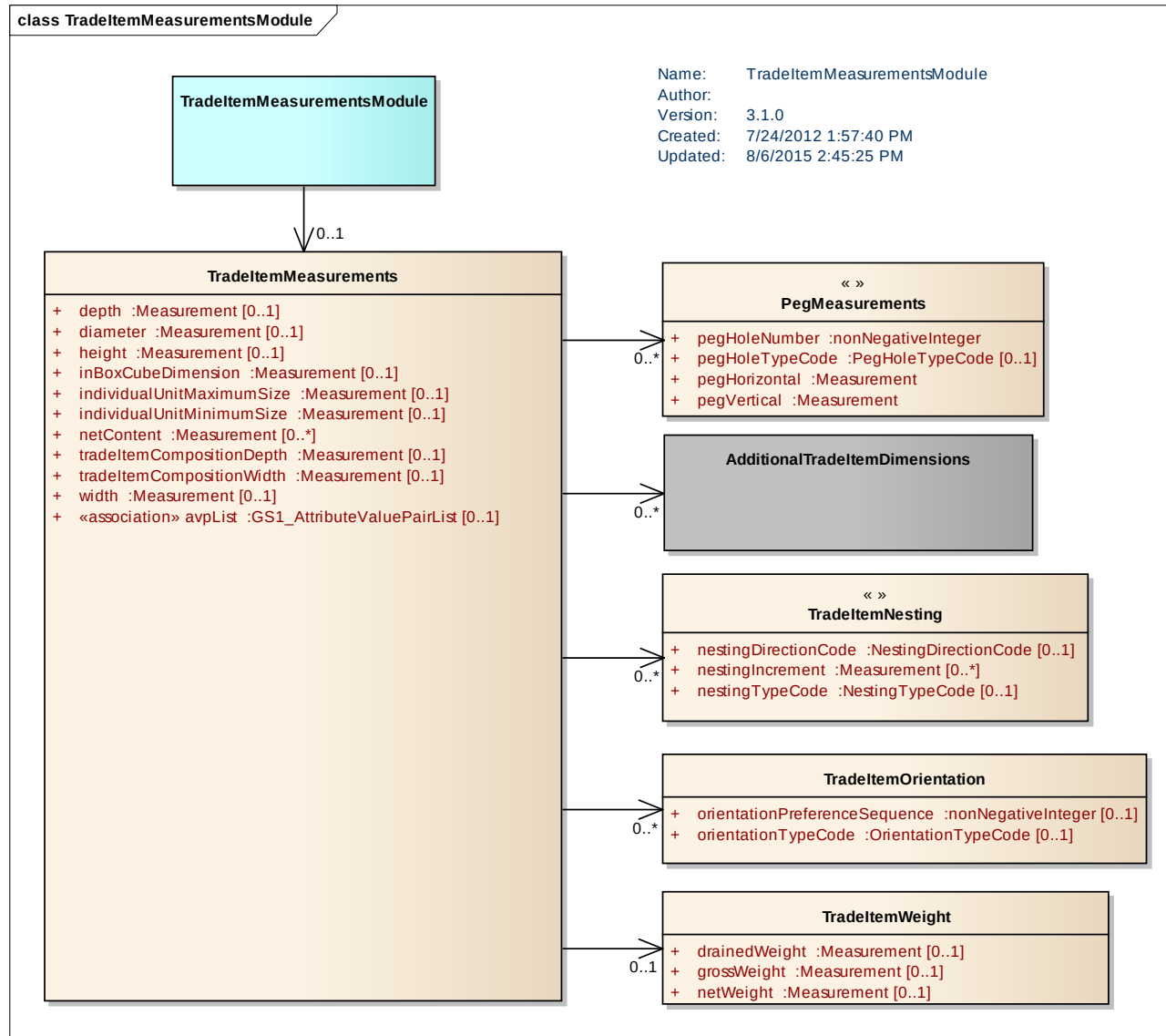
5.64. Trade Item Lifespan Module



content	attribute / role	datatype /secondary class	multipli city	definition
TradelItemLifespan				Information on the amount of time the item can or should be used, sold, etc.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	doesTradelItemHaveAutoReaderTracker	NonBinaryLogicEnumeration	0..1	Indication that the trade item has a device that identifies that the product has a limited number of reuses and is self tracked. Each time the device is used / plugged in it will decrement the count. When the counter reaches zero the trade item should be disposed of.

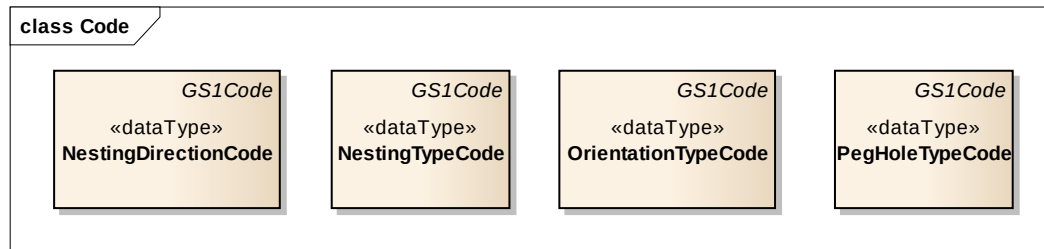
content	attribute / role	datatype /secondary class	multipl city	definition
attribute	itemMinimumDurability	TimeMeasurement	0..*	The length of time until which the product will continue to fulfill its initial function and remain safe, i.e. the length of time by which it is best to use the product.
Attribute	minimumTradeItemLifespanFromTimeOfArrival	nonNegativeInteger	0..1	The period of days, guaranteed by the manufacturer, before the expiration date of the trade item, based on arrival to a mutually agreed to point in the buyers distribution system. Can be repeatable upon use of GLN.
Attribute	minimumTradeItemLifespanFromTimeOfProduction	nonNegativeInteger	0..1	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.
Attribute	openedTradeItemLifespan	nonNegativeInteger	0..1	The number of days the trade item that had been opened can remain on the shelf and must then be removed.
Attribute	supplierSpecifiedMinimumConsumerStorageDays	nonNegativeInteger	0..1	Represents the number of days between a product's "sell by date" and its "use by date".
TradeItemLifespanModule				A module containing information on the amount of time the item can or should be used, sold, etc.
Association		TradeItemLifespan	0..1	Information on the amount of time the item can or should be used, sold, etc.

5.65. Trade Item Measurements Module





Note: Common class (in grey) is located in the GDSN Common Library.



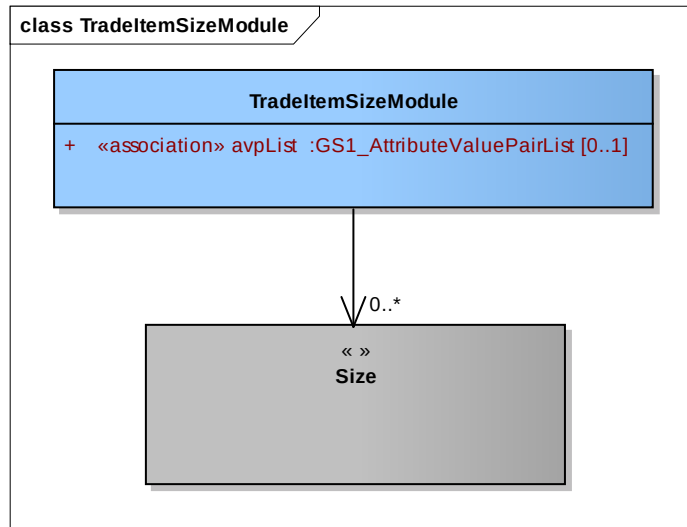
content	attribute / role	datatype /secondary class	multiplicity	definition
TradeItemMeasurements				Measurement information for the trade item.
Association		AdditionalTradeItemDimensions	0..*	Measurements for a trade item including dimensions.
Association		TradeItemOrientation	0..*	Orientation information for a trade item.
Association		TradeItemWeight	0..1	Details on weight for a trade item.
Association		TradeItemNesting	0..*	Details on how trade items nest with each other for the purpose of measurements.
Association		PegMeasurements	0..*	This class enables the description of multiple peg holes and their locations for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	depth	Measurement	0..1	The depth of the trade item, as measured according to the GDSN Package Measurement Rules. If the trade item is a unit load, include the shipping platform unless it is excluded according to the Platform Type Code chosen.
Attribute	diameter	Measurement	0..1	The measurement of the diameter of the trade item at its largest point. For example, 165 "mmt", value - mmt, diameter. Has to be associated with valid UoM.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	height	Measurement	0..1	The height of the trade item, as measured according to the GDSN Package Measurement Rules. If the trade item is a unit load, include the shipping platform unless it is excluded according to the Platform Type Code chosen.
Attribute	inBoxCubeDimension	Measurement	0..1	The dimensions of an imaginary cube which can be drawn around the trade item as defined in the formula of H X W X D (The linear dimensions multiplied to get a cubic result). This only applies to In-box dimensions. Level of Hierarchy applied to- All. Example- Bag of cabbage, Bag of Flour, Broom, Ham, or Case of Beer.
Attribute	individualUnitMaximumSize	Measurement	0..1	Maximum size of the individual unit inside the lowest level of packaging.
Attribute	individualUnitMinimumSize	Measurement	0..1	Minimum size of the individual unit inside the lowest level of packaging.
Attribute	netContent	Measurement	0..*	The amount of the trade item contained by a package, usually as claimed on the label. For example, Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea.". In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade item which are sold by volume or weight, and whose actual content may vary slightly from batch to batch. In case of variable quantity trade items, indicates the average quantity.
Attribute	tradeItemCompositionDepth	Measurement	0..1	The number of child-items that are packaged from front to back in a trade unit. This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf.
Attribute	tradeItemCompositionWidth	Measurement	0..1	The number of child-items that are packaged beside each other in a trade unit (on the side facing the consumer). This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf. The Space Manager always allocates Base Units in the shelf. Usually there are no pictures of Trade Units available and for Hypermarkets/Big Supermarkets there is a need to allocate whole trade units into the shelves.
Attribute	width	Measurement	0..1	The width of the trade item, as measured according to the GDSN Package Measurement Rules. If the trade item is a unit load, include the shipping platform unless it is excluded according to the Platform Type Code chosen.

content	attribute / role	datatype /secondary class	multiplicity	definition
TradeItemMeasurementsModule				A module containing measurement information for the trade item.
Association		TradeItemMeasurements	0..1	A module containing measurement information for the trade item.
TradeItemOrientation				Depicts one or many suggested orientations for the trade item for the purpose of display.
Attribute	orientationPreferenceSequence	nonNegativeInteger	0..1	Depicts the preferred sequence of orientation used to communicate the manufacturers relative preferences of orientation.
Attribute	orientationTypeCode	OrientationtypeCode	0..1	Depicts via code a display orientation for a trade item.
PegMeasurements				This class enables the description of multiple peg holes and their locations for a trade item.
Attribute	pegHoleNumber	nonNegativeInteger	1..1	Used to indicate the peg hole numbers when more than one hole is present in the product or packaging. Peg holes should be numbered from the upper left corner of the front of the package to the bottom right corner.
Attribute	pegHoleTypeCode	PegHoleTypeCode	0..1	A code depicting the type and shape of the peg hole used for the packaging.
Attribute	pegHorizontal	Measurement	1..1	Used to indicate the horizontal distance from the left edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard. Example: "2 INH." Required if the trade item is displayed on a peg board.
Attribute	pegVertical	Measurement	1..1	Used to indicate the vertical distance of a peg hole measured from the bottom edge of the trade item to the top of the peg hole. Peg holes are inserted when the trade item is displayed on a pegboard. Example: "2 INH." Information is required if the trade item is displayed on a peg board.
TradeItemNesting				Details on how trade items nest with each other for the purpose of measurements.
Attribute	nestingDirectionCode	NestingDirectionCode	0..1	Depicts the arrangement of two items that nest together specifically whether they nest against each other or on top of each other.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	nestingIncrement	Measurement	0..*	Indicates the incremental height of Trade Items nested together. In the case of two garbage cans nested together, this would be the height between the lip of the lower can and the lip on the upper can.
Attribute	nestingTypeCode	NestingTypeCode	0..1	Depicts whether a nested item fits inside or over the other item in a nesting relationship.
TradeItemWeight				Information on the weight of a trade item.
Attribute	drainedWeight	Measurement	0..1	The weight of the trade item when drained of its liquid. For examples 225 "grm", Jar of pickles in vinegar. Applies to defined bricks of GCI Global trade item Classification - Mainly food trade item. Has to be associated with a valid UoM.
Attribute	grossWeight	Measurement	0..1	Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade item, grossWeight includes the weight of the pallet itself. For example, "200 GRM", value - total pounds, total grams, etc. Has to be associated with a valid UOM.
Attribute	netWeight	Measurement	0..1	Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level. For consumer unit, Net Content replaces Net Weight (can then be weight, size, volume). Has to be associated with a valid UoM.

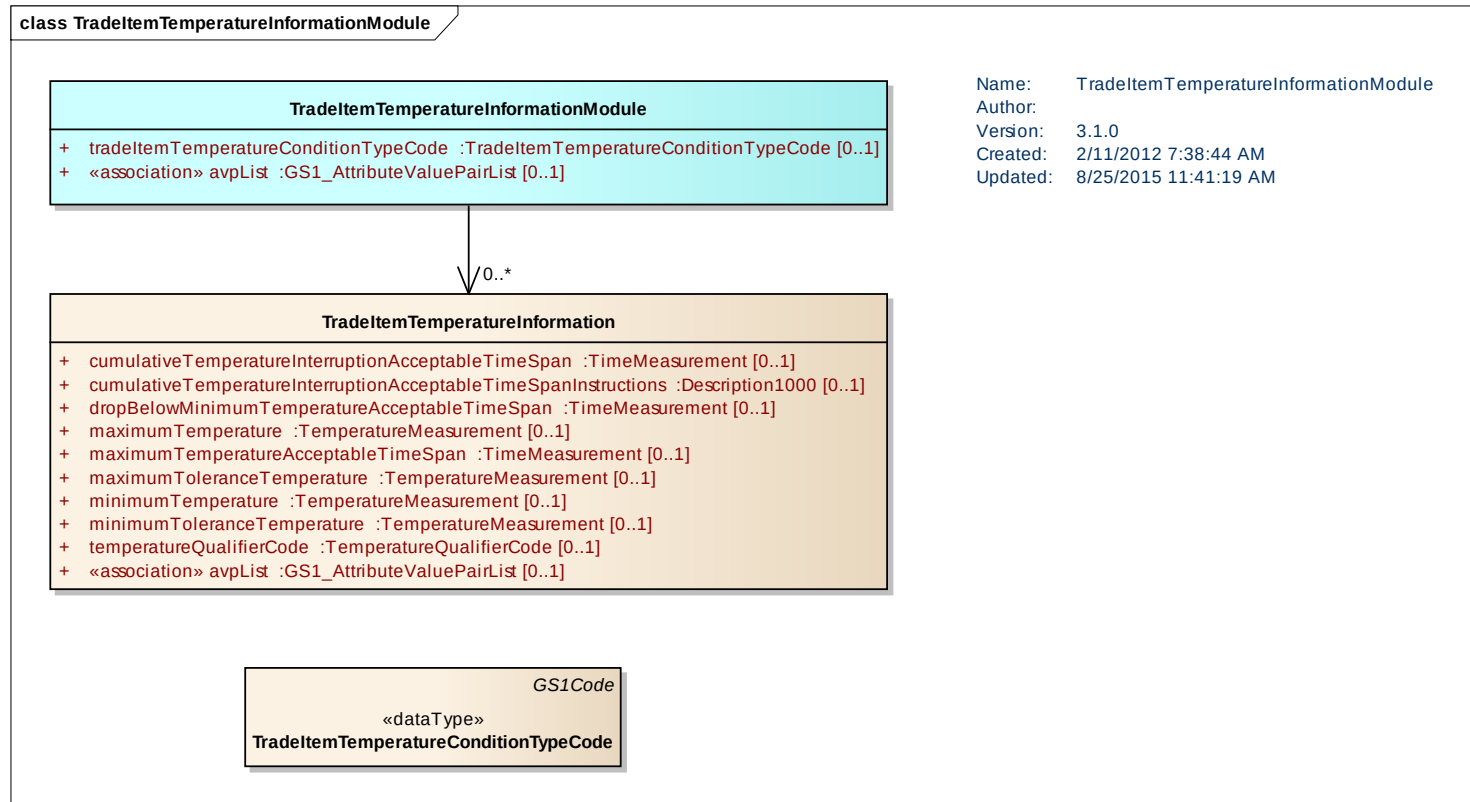
5.66. Trade Item Size Module



Note: Common class (in grey) is located in the Shared Common Library.

content	attribute / role	datatype /secondary class	multiplcity	definition
TradeItemSizeModule				A module specifying the size of an object as a code or a description.
Association		Size	0..*	The size of an object and the size coding system being applied, for example L (buyer assigned).
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.

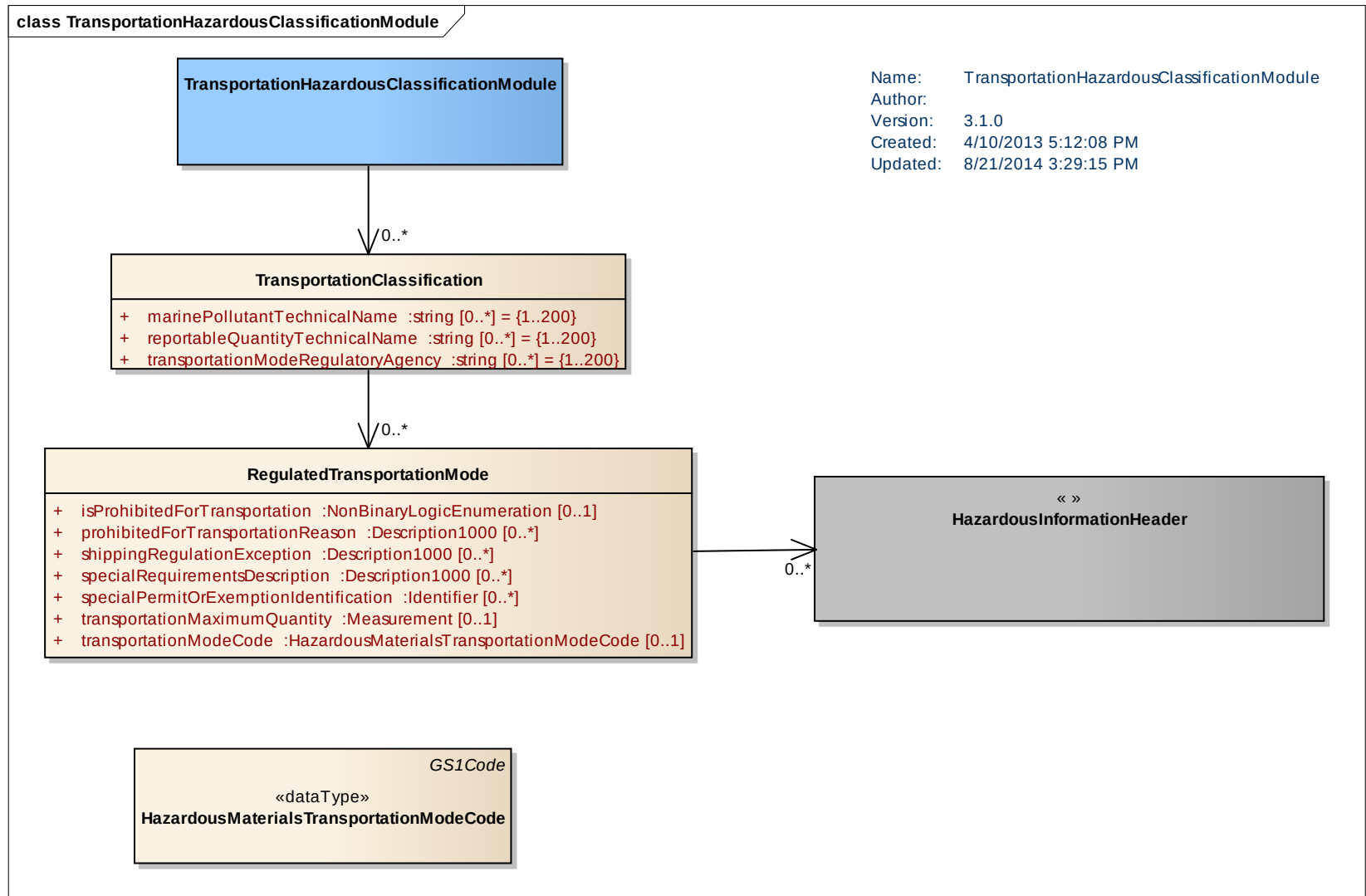
5.67. Trade Item Temperature Information Module



content	attribute / role	datatype /secondary class	multipl city	definition
TradeItemTemper atureInformationM odule				Information on temperatures considerations for trade item.
Association		TradeItemTemperat ureInformation	0..*	Details on permissible temperatures of a trade item during various points of the supply chain.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	tradeItemTemperatureConditionTypeCode	TradeItemTemperatureConditionTypeCode	0..1	The condition of the product sold to the end consumer for example thawed or frozen.
TradeItemTemperatureInformation				Details on permissible temperatures of a trade item during various points of the supply chain.
Association	avpList	GS1_AttributeValue PairList	0..1	Attribute value pair information.
Attribute	cumulativeTemperatureInterruptionAcceptableTimeSpan	TimeMeasurement	0..1	An expression of the maximum allowed cumulative time span of one or more temperature interruptions of a trade item as defined by the manufacturer.
Attribute	cumulativeTemperatureInterruptionAcceptableTimeSpanInstructions	Description1000	0..1	Instructions provided by the product manufacturer regarding the process, procedures, or handling instructions for trade items that has exceeded the cumulative time span of temperature interruptions.
Attribute	dropBelowMinimumTemperatureAcceptableTimeSpan	TimeMeasurement	0..1	The amount of time that a product can drop below the minimum temperature threshold during storage as defined by the manufacturer without affecting product safety or quality.
Attribute	maximumTemperature	TemperatureMeasurement	0..1	The maximum temperature that a trade item can not exceed as defined by the manufacturer without affecting product safety or quality.
Attribute	maximumTemperatureAcceptableTimeSpan	TimeMeasurement	0..1	The amount of time that a product can safely rise above the maximum temperature threshold during storage as defined by the manufacturer without affecting product safety or quality.
Attribute	maximumToleranceTemperature	TemperatureMeasurement	0..1	The maximum temperature at which the item is still usable. The tolerated temperature indicates that the temperature of the trade item should never rise above the maximum temperature.
Attribute	minimumTemperature	TemperatureMeasurement	0..1	The minimum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality.
Attribute	minimumToleranceTemperature	TemperatureMeasurement	0..1	The minimum temperature at which the item is still usable. The tolerated temperature indicates that the temperature of the trade item should never fall below the minimum temperature.
Attribute	temperatureQualifierCode	TemperatureQualifierCode	0..1	Code qualifying the type of a temperature requirement for example Storage.

5.68. Transportation Hazardous Classification Module



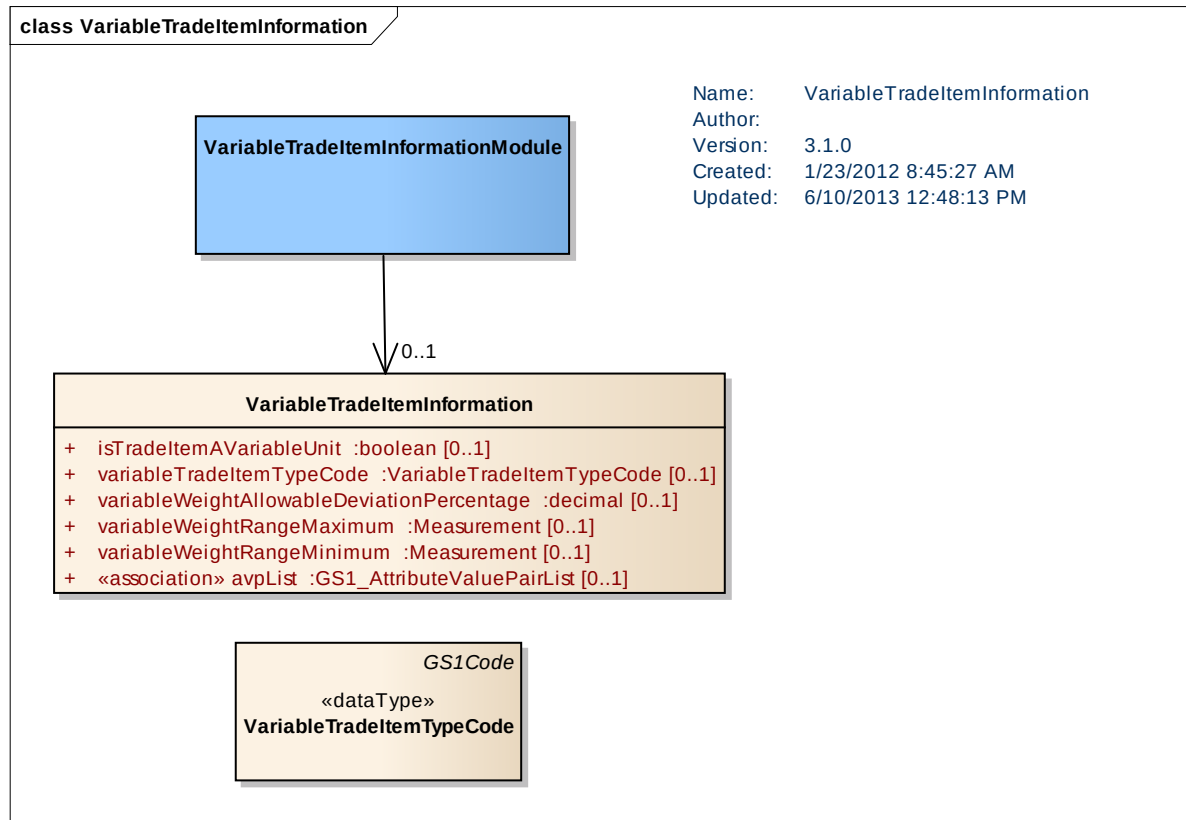


Note: Common class (in grey) is located in the GDSN Common Library.

content	attribute / role	datatype /secondary class	multiplicity	definition
TransportationHazardousClassificationModule				A module containing information on hazardous information typically based on a specific mode of transportation as regulated by an agency for example ADR, IATA, DOT, IMDG.
Association		TransportationClassification	0..*	Information on hazardous information based on a specific mode of transportation as regulated by an agency for example ADR, IATA, DOT, IMDG.
TransportationClassification				Information on hazardous information based on a specific mode of transportation as regulated by an agency for example ADR, IATA, DOT, IMDG.
Association		RegulatedTransportationMode	0..*	Hazardous transportation information per mode of transportation.
Attribute	marinePollutantTechnicalName	string	0..*	The technical chemical name of any marine pollutant contained in the item or component.
Attribute	reportableQuantityTechnicalName	string	0..*	A recognized chemical name or microbiological name currently used in scientific and technical handbooks, journals, and texts for a chemical that exists in the Trade Item in quantity viewed as reportable according to a regulation for example US EPA.
Attribute	transportationModeRegulatoryAgency	string	0..*	The agency requiring information based on a specific mode of transportation for example ADR, IATA, DOT, IMDG.
RegulatedTransportationMode				Hazardous transportation information per mode of transportation.
Association		HazardousInformationHeader	0..*	Hazardous information for a hazardous class expressed for a transportation mode.
Attribute	isProhibitedForTransportation	NonBinaryLogicEnumeration	0..1	Indicates whether an item is prohibited for transportation via a specified mode.
Attribute	prohibitedForTransportationReason	Description1000	0..*	The reason that something is prohibited for transportation using a specific mode as a description.
Attribute	shippingRegulationException	Description1000	0..*	A description of any reasons for excluding a trade item or component from a hazardous regulation for a mode of transportation.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	specialRequirementsDescription	Description1000	0..*	Any special requirements for storage or transportation in relation to any hazardous materials for example those regulated by ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road).
Attribute	specialPermitOrExemptionIdentification	Identifier	0..*	An identifier (special permit number) for an exemption or special permit for a Trade Item. An identifier for an exception from a regulation specific to packaging for example DOT T, E, SP numbers, specialpermits for a packaging style.
Attribute	transportationMaximumQuantity	Measurement	0..1	The maximum inner volume of receptacles or packages (inner pack of vendor pack) that can be safely transported for a specific transportation type (e.g. Air Cargo) according to a governing agency.
Attribute	transportationModeCode	HazardousMaterialsTransportationModeCode	0..1	The type of vehicle used for the transportation of a hazardous material.

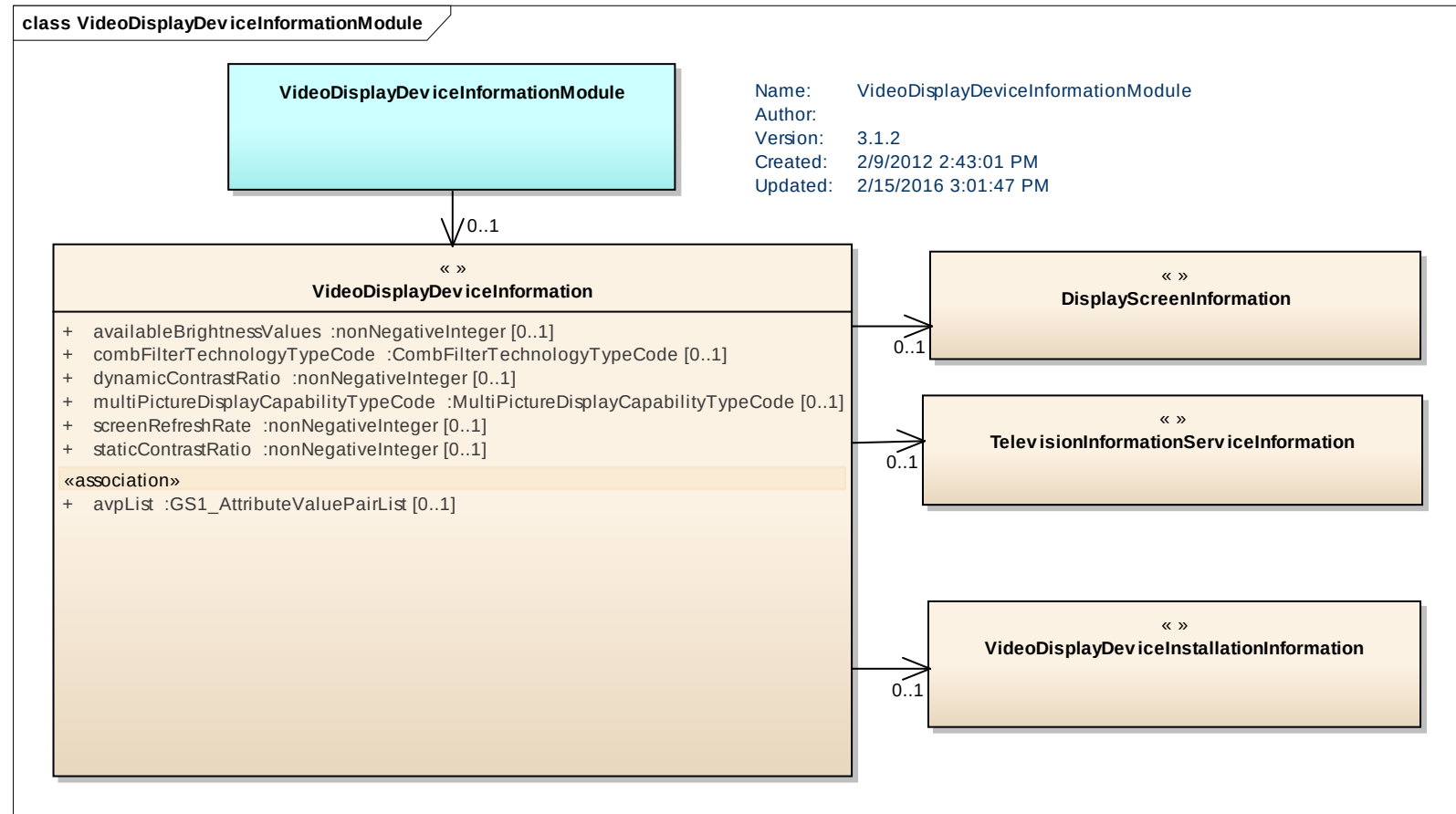
5.69. Variable Trade Item Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
VariableTradeItem Information				Information specific to variable weight or dimension trade items.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	isTradeItemAVariable Unit	boolean	0..1	Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume, trade item is used or traded in continuous rather than discrete quantities.
Attribute	variableTradeItemTypeCode	VariableTradeItemTypeCode	0..1	Indicator to show whether product is loose or pre-packed.
Attribute	variableWeightAllowableDeviationPercentage	decimal	0..1	Indication of the percentage value that the actual weight of the trade item may differ from the average or estimated weight given. For example, Roast beef off the bone 3.5 kg, Gross weight 3500 Grams, Range = 14 %. This means that this item may be produced with weight values ranging from 3.010 kg to 3.990 kg.
Attribute	variableWeightRangeMaximum,	Measurement	0..1	Variable Weight Range Maximum (also called Catchweight Range Maximum) identifies the highest or ceiling weight of a variable weight product.
Attribute	variableWeightRangeMinimum	Measurement	0..1	Variable Weight Range Minimum (also called Catch weight Range Minimum) identifies the lowest weight of the variable weight product.
VariableTradeItem InformationModule				A module containing information specific to variable weight or dimension trade items.
Association		VariableTradeItemInformation	0..1	Information specific to variable weight or dimension trade items.

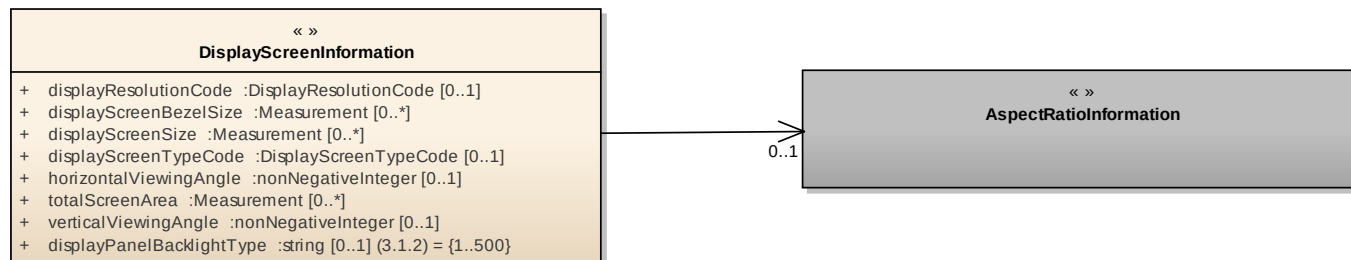
5.70. Video Display Device Information Module



content	attribute / role	datatype /secondary class	multiplicity	definition
TelevisionInformationServiceInformation				A capability of the television to process text information service (subtitled or captioned) for example Teletext, Telidon, Antiope, Fastext.

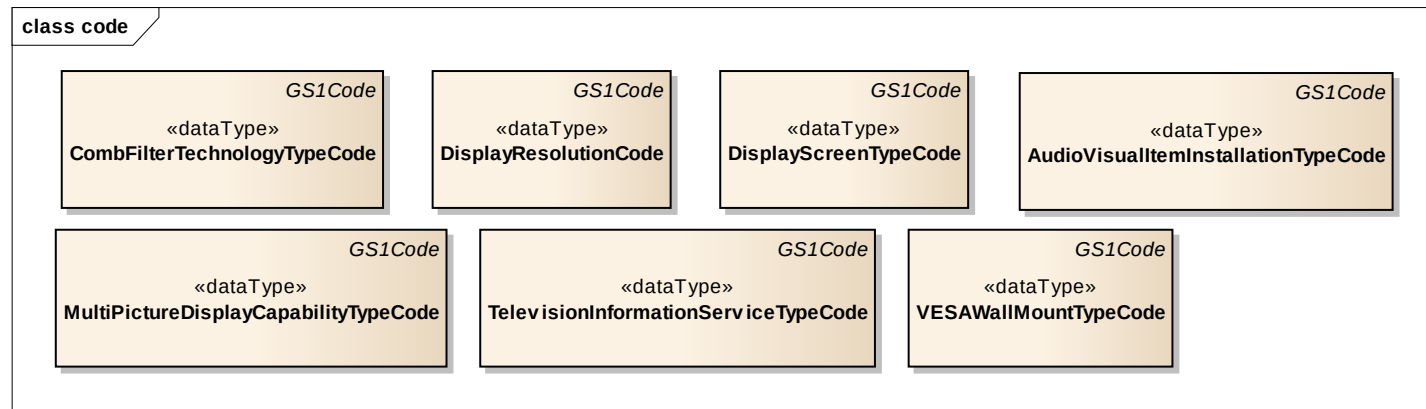
content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	televisionInformationServiceTypeCode	TelevisionInformationServiceTypeCode	0..*	The type of text information services the unit can process expressed as a code for example ANTIOPE.
Attribute	televisionTextMemoryPageQuantity	nonNegativeInteger	0..1	This is the quantity of pages expressed as an integer that the television memory maintains for previously viewed Teletext content.
VideoDisplayDeviceInstallationInformation				Installation information for a audio visual item.
Attribute	audioVisualItemInstallationOptionTypeCode	AudioVisualItemInstallationTypeCode	0..1	The way that the unit can be mounted or placed expressed as a code for example CEILING_MOUNT.
Attribute	vESAWallMountTypeCode	VESAWallMountTypeCode	0..1	The type of VESA wall mount the television is compatible with. VESA is a standard bracket which is a universal mount measured by the Video Electronic Standard Association.
VideoDisplayDeviceInformation				Information of the video capabilities of the trade item.
Association		TelevisionInformationServiceInformation	0..1	A capability of the television to process text information service (subtitled or captioned) for example Teletext, Telidon, Antiope, Fastext.
Association		VideoDisplayDeviceInstallationInformation	0..1	Installation information for a audio visual item.
Association		DisplayScreenInformation	0..1	Details on television or monitor screens for a trade item.
Association	avpList	GS1_AttributeValuePairList	0..1	Attribute value pair information.
Attribute	availableBrightnessValues	nonNegativeInteger	0..1	The monitor brightness as a measurement. This is measured in candela per square meter (also known as Nits) or lumens per square meter, and Lux.
Attribute	combFilterTechnologyTypeCode	CombFilterTechnologyTypeCode	0..1	A code depiction the type of software allowing the screen to show fine picture detail from channel broadcast or DVD source for example DIGITAL.
Attribute	dynamicContrastRatio	nonNegativeInteger	0..1	This is the ratio of luminosity of the brightest and darkest colour the system is capable of producing simultaneously over time. In the attribute the integer given is the first number in the ratio which is always to one, i.e. 550:1.

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	multiPictureDisplayCapabilityTypeCode	MultiPictureDisplayCapabilityTypeCode	0..1	The type of ability to simultaneously display multiple viewing windows on the same screen expressed as a code for example PICTURE_AND_TEXT.
Attribute	screenRefreshRate	nonNegativeInteger	0..1	This is defined as the number of times a display's image is repainted or refreshed in per second measured in Hertz.
Attribute	staticContrastRatio	nonNegativeInteger	0..1	This is the ratio of luminosity of the brightest and darkest colour the system is capable of producing simultaneously at any instance of time. In the attribute the integer given is the first number in the ratio which is always to one, i.e. 550:1.
VideoDisplayDeviceInformationModule				A module containing Information of the capabilities of a trade item that displays visual images for example a television or a computer monitor.
Association		VideoDisplayDeviceInformation	0..1	Information of the video capabilities of the trade item.

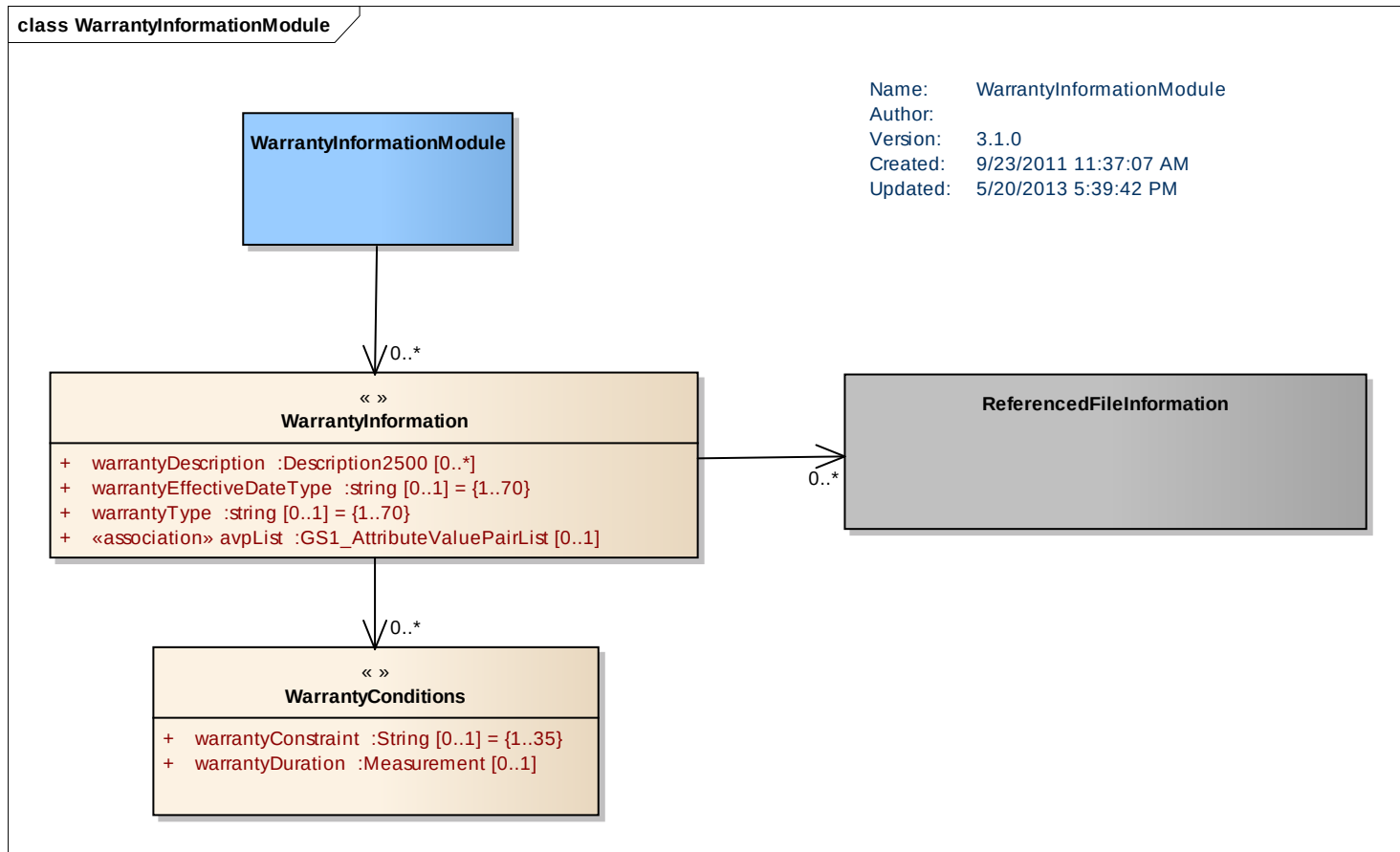
class DisplayScreenInformation


content	attribute / role	datatype /secondary class	multiplicity	definition
DisplayScreenInformation				Details on television or monitor screens for a trade item.
Association		AspectRatioInformation	0..1	Aspect ratio information for a display screen.
Attribute	displayPanelBacklightType	String	0..1	The backlighting utilized in the panel, most commonly Cold Cathode Fluorescent Lamps (CCFLs) or Light Emitting Diodes (LEDs).

content	attribute / role	datatype /secondary class	multiplicity	definition
Attribute	displayResolutionCode	DisplayResolutionCode	0..1	The display resolution of a television or computer display. This typically refers to the number of distinct pixels in each dimension that can be displayed for example 720x480, 1680x1050, etc.
Attribute	displayScreenBezelSize	Measurement	0..*	The measurement from the edge of physical screen to the frame.
Attribute	displayScreenSize	Measurement	0..*	The viewable display/screen size of the product expressed as a measurement (inches or centimetres).
Attribute	displayScreenTypeCode	DisplayScreenTypeCode	0..1	The type of output device for presentation of visual information.
Attribute	horizontalViewingAngle	nonNegativeInteger	0..1	The maximum angle that a picture can be viewed without distortion in the horizontal orientation expressed in degrees.
Attribute	totalScreenArea	Measurement	0..*	The area of a television or monitor screen typically measured as viewable screen height by viewable screen width.
Attribute	verticalViewingAngle	nonNegativeInteger	0..1	The maximum angle that a picture can be viewed without distortion in the vertical orientation expressed in degrees.



5.71. Warranty Information Module



content	attribute / role	datatype /secondary class	multipli city	definition
WarrantyConditio ns				Provides information on the usually written guarantee of the integrity of a product and of the maker's responsibility for the repair or replacement of defective parts.
Attribute	warrantyConstraint	string	0..1	Determines the relationship between multiple warranty conditions for example "and", "or" , "greatest", "least".

content	attribute / role	datatype /secondary class	multipli city	definition
Attribute	warrantyDuration	Measurement	0..1	The time period that the warranty is valid within.
WarrantyInformati on				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.
Association		ReferencedFileInfo rmation	0..*	External file information for a warranty.
Association		WarrantyCondition s	0..*	Warranty Conditions for this Trade Item Warranty.
Association	avpList	GS1_AttributeValu ePairList	0..1	Attribute value pair information.
Attribute	warrantyDescription	Description2500	0..*	The description of warranty available for the trade item.
Attribute	warrantyEffectiveDat eType	String	0..1	The type of date associated with the warranty trade item usually expressed as an event date for the item for example date of purchase, date of manufacture or date of delivery.
Attribute	warrantyType	String	0..1	The type of warranty available for the trade item for example labour, distance, extended service.
WarrantyInformati onModule				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.
Association		WarrantyInformatio n	0..*	A module containing any warranty information relevant to a trade item.

6 Codes

6.1 GS1 Managed Codes

All GS1 managed codes applicable to GDSN can be found at the following link:

[GDSN Code List BMS](#)

6.2 Attributes with Code Lists Not Specified in Models

The following attributes do not specify the code list to be used using the data type. The following table lists the code lists to be used for these types of attributes.

Attribute Name	Code List
classOfDangerousGoods	Recommend to use codes listed in the 16th edition of the UN Recommendations on the Transport of Dangerous Goods was published in 2009.
colourCodeListCode	Use ColourCodeListCode
codeListNameCode	AVPCodeListNameCode (GS1 Code List)
countryCode	GDSN extends the ISO Country Code list with the value NON_EU. The Country Code List for GDSN is in this document.
dangerousGoodsRegulationCode	DangerousGoodsRegulationCode
epubUsageStatus	ONIXUsageStatusCode
epubUsageType	ONIXUsageTypeCode
genreTypeCodeReference	GS1 Code List used differs based on product: • Product Genre Type Code (Electronic Games) • Product Genre Type Code (Film) • Product Genre Type Code (Music)
massEquivalentProtocolCode	Based On MassEquivalentCode, use one of following: • Mass Equivalent Fresh Water Consumption Protocol Code • Mass Equivalent Ionizing Radiation Human Protocol Code • Mass Equivalent Land Use Protocol Code • Mass Equivalent Nonrenewable Resource Depletion Protocol Code • Mass Equivalent Ozone Depletion Protocol Code • Mass Equivalent Particulate Respiratory Effects Protocol Code • Mass Equivalent Photochemical Ozone Creation Potential Protocol Code

Attribute Name	Code List
massEquivalentSubstanceCodeReference	Based On MassEquivalentCode, use one of following: • Mass Equivalent Fresh Water Consumption Substance Code • Mass Equivalent Ionizing Radiation Human Substance Code • Mass Equivalent Land Use Substance Code • Mass Equivalent Non Renewable Resource Depletion Substance Code • Mass Equivalent Ozone Depletion Reference Substance Code • Mass Equivalent Particulate Respiratory Effects Reference Substance Code
onixExtentUnitTypeCode	Recommended to use ONIX List 24: Extent Unit Code.
productActivityRegionZoneCodeReference	Use CatchAreaCode when productActivityType = CATCH_ZONE
ratingContentDescriptorCode	GS1 Code List used differs based on product: • Rating Content Descriptor Code (Music) • Rating Content Descriptor Code (ESBR) • Rating Content Descriptor Code (PEGI) • Rating Content Descriptor Code (Film)
roHSComplianceFailureMaterial	Use ROHSComplianceFailureMaterialCode.
sizeCodeListCode	Use SizeCodeListCode.
titleRatingCodeReference	GS1 Code List used differs based on product type: • Title Rating Code (Games) • Title Rating Code (Film).
unnamedPersons	onixUnnamedPersonsCode
unitedNationsDangerousGoodsNumber	UNDG Number: Recommend to use codes listed in the 16th edition of the UN Recommendations on the Transport of Dangerous Goods was published in 2009.

7 Implementation Considerations

7.1 Attribute Variations

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
accidentalReleaseMeasuresDescription	Global/Local	T.P.Neutral	No	Yes
acidificationMeasurement	Global/Local	T.P.Neutral	No	No
acidificationMeasurementProtocolCode	Global/Local	T.P.Neutral		
acidificationMeasurementProtocolDescription	Global/Local	T.P.Neutral	No	Yes
acidificationMeasurementReferenceSubstanceCode	Global/Local	T.P.Neutral		
acidificationMeasurementReferenceSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
additionalCameraAngleCode	Global/Local	T.P.Neutral		
additionalCertificationOrganisationIdentifier	Global/Local	T.P.Neutral		
additionalPublicationDescription	Global/Local	T.P.Neutral	No	No
additionalSDSInformation	Global/Local	T.P.Neutral	No	Yes
additionalTradeItemClassificationCodeDescription	Global	T.P.Neutral	No	No

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
additionalTradeItemClassificationCodeValue	Global	T.P.Neutral		
additionalTradeItemClassificationPropertyCode	Global	T.P.Neutral		
additionalTradeItemClassificationPropertyDescription	Global	T.P.Neutral	No	No
additionalTradeItemClassificationSystemCode	Global	T.P.Neutral		
additionalTradeItemClassificationVersion	Global	T.P.Neutral		
additionalTradeItemDescription	Global/Local	T.P.Neutral	No	Yes
additionalTradeItemIdentification	Global/Local	T.P.Neutral		
additiveName	Global/Local	T.P.Neutral		
aDRDangerousGoodsLimitedQuantitiesCode	Global/Local	T.P.Neutral		
aDRDangerousGoodsPackagingTypeCode	Global/Local	T.P.Neutral		
aDRTunnelRestrictionCode	Global/Local	T.P.Neutral		
ageRangeDescription	Global/Local	T.P.Neutral	No	No
agreedMaximumBuyingQuantity	Global/Local	T.P.Neutral		
agreedMinimumBuyingQuantity	Global/Local	T.P.Neutral		
alcoholicBeverageSubregion	Global/Local	T.P.Neutral		
alcoholicPermissionLevel	Global/Local	T.P.Neutral		
allergenSpecificationAgency	Global/Local	T.P.Neutral		
allergenSpecificationName	Global/Local	T.P.Neutral		
allergenStatement	Global/Local	T.P.Neutral	No	Yes
allergenTypeCode	Global/Local	T.P.Neutral		
allowanceChargeAmount	Global/Local	T.P.Neutral & T.P.Dependent	No	No
allowanceChargeDescription	Global/Local	T.P.Neutral & T.P.Dependent	No	Yes
allowanceChargePercentage	Global/Local	T.P.Neutral & T.P.Dependent		
allowanceChargeTypeCode	Global/Local	T.P.Neutral & T.P.Dependent		
allowanceOrChargeType	Global/Local	T.P.Neutral & T.P.Dependent		
alternativeName	Global/Local	T.P.Neutral		
alternativeNameType	Global/Local	T.P.Neutral		
alternativeReturnableAssetIdentification	Global/Local	T.P.Neutral		
amountPerUnit	Global/Local	T.P.Neutral	No	No
animalNutrientExactPercentage	Global/Local	T.P.Neutral		
animalNutrientMaximumPercentage	Global/Local	T.P.Neutral		
animalNutrientMinimumPercentage	Global/Local	T.P.Neutral		
animalNutrientQuantityContained	Global/Local	T.P.Neutral	No	Yes
animalNutrientQuantityContainedBasis	Global/Local	T.P.Neutral	No	Yes
animalNutrientTypeCode	Global/Local	T.P.Neutral		
animalNutritionalClaim	Global/Local	T.P.Neutral	Yes	Yes
applicationIdentifierTypeCode	Global/Local	T.P.Neutral		
aquaticEutrophicationMeasurement	Global/Local	T.P.Neutral	No	No
aquaticEutrophicationModelCode	Global/Local	T.P.Neutral		
aquaticEutrophicationModelDescription	Global/Local	T.P.Neutral	No	No
aquaticEutrophicationReferenceSubstanceCode	Global/Local	T.P.Neutral		
aquaticEutrophicationReferenceSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
aquaticEutrophicationWaterBodyDescription	Global/Local	T.P.Neutral	No	Yes
aquaticEutrophicationWaterBodyTypeCode	Global/Local	T.P.Neutral		
areBatteriesBuiltIn	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
areBatteriesIncluded	Global/Local	T.P.Neutral		
areBatteriesRequired	Global/Local	T.P.Neutral		
areFeesRequiredForUse	Global/Local	T.P.Neutral		
areHazardousComponentsRemovable	Global	T.P.Neutral		
areHumanModelsInFile	Global/Local	T.P.Neutral		
aspectRatioDescriptionCode	Global/Local	T.P.Neutral		
aspectRatioDimensionCode	Global/Local	T.P.Neutral		
audienceCodeValueCode	Global/Local	T.P.Neutral		
audienceDescription	Global/Local	T.P.Neutral	No	No
audienceRangePrecision1Code	Global/Local	T.P.Neutral		
audienceRangePrecision2Code	Global/Local	T.P.Neutral		
audienceRangeQualifierCode	Global/Local	T.P.Neutral		
audienceRangeValue1	Global/Local	T.P.Neutral		
audienceRangeValue2	Global/Local	T.P.Neutral		
audienceTypeCodeListCode	Global/Local	T.P.Neutral		
audioSoundTypeCode	Global/Local	T.P.Neutral		
audioVisualConnectionInputDirectionCode	Global/Local	T.P.Neutral		
audioVisualConnectionLocationCode	Global/Local	T.P.Neutral		
audioVisualConnectionQuantity	Global/Local	T.P.Neutral		
audioVisualConnectionTypeCode	Global/Local	T.P.Neutral		
audioVisualItemInstallationOptionTypeCode	Global/Local	T.P.Neutral		
audioVisualMediaDateTime	Global/Local	T.P.Neutral		
audioVisualMediaDateTypeCode	Global/Local	T.P.Neutral		
audioVisualMediaItemContributorName	Global/Local	T.P.Neutral		
audioVisualMediaItemContributorTypeCode	Global/Local	T.P.Neutral		
audioVisualMediaProductCollectionName	Global/Local	T.P.Neutral		
audioVisualMediaProductLabelName	Global/Local	T.P.Neutral		
audioVisualMediaProductLine	Global/Local	T.P.Neutral	Yes	Yes
audioVisualMediaProductTitle	Global/Local	T.P.Neutral		
autoIgnitionTemperature	Global/Local	T.P.Neutral	No	Yes
automaticPowerDownDefaultTimePeriod	Global	T.P.Neutral		
availableBrightnessValues	Global/Local	T.P.Neutral		
availableChannelStationQuantity	Global/Local	T.P.Neutral		
availableLanguageCode	Global/Local	T.P.Neutral		
availableTime	Global/Local	T.P.Neutral	No	No
averageDistanceTravelledToPointOfPackagingCode	Global/Local	T.P.Neutral		
awardPrizeCode	Global/Local	T.P.Neutral		
awardPrizeCountryCode	Global/Local	T.P.Neutral		
awardPrizeDescription	Global/Local	T.P.Neutral	No	No
awardPrizeJury	Global/Local	T.P.Neutral		
awardPrizeName	Global/Local	T.P.Neutral		
awardPrizeYear	Global/Local	T.P.Neutral		
baseAmount	Global/Local	T.P.Neutral	No	No
baseNumberOfUnits	Global/Local	T.P.Neutral	No	No
batteryTechnologyTypeCode	Global/Local	T.P.Neutral		
batteryTypeCode	Global/Local	T.P.Neutral		
batteryWeight	Global/Local	T.P.Neutral	No	No
bendAngleCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
biographicalNote	Global/Local	T.P.Neutral	No	No
boilingPoint	Global/Local	T.P.Neutral	No	Yes
boxOfficeRevenueDomestic	Global/Local	T.P.Neutral	No	No
boxOfficeRevenueFirstWeekDomestic	Global/Local	T.P.Neutral	No	No
boxOfficeRevenueUS	Global/Local	T.P.Neutral	No	No
boxOfficeRevenueWorldwideUSDollars	Global/Local	T.P.Neutral	No	No
brandDistributionTypeCode	Global/Local	T.P.Neutral		
brandName	Global	T.P.Neutral		
brandOwner	Global	T.P.Neutral		
builtInProductType	Global	T.P.Neutral		
campaignEndDateTime	Global	T.P.Neutral		
campaignMediaTypeDescription	Global/Local	T.P.Neutral	Yes	Yes
campaignName	Global	T.P.Neutral	No	No
campaignStartDateTime	Global	T.P.Neutral		
cancelledDateTime	Global	T.P.Neutral		
canFilesBeEdited	Global/Local	T.P.Neutral		
canFileStream	Global/Local	T.P.Neutral		
canTradeItemBeBackOrdered	Global/Local	T.P.Neutral		
cardPriceGroupIdentifier	Global/Local	T.P.Neutral		
casingTareWeight	Global	T.P.Neutral	No	No
cataloguePrice	Global/Local	T.P.Neutral	No	No
certificateIssuanceDateTime	Global/Local	T.P.Neutral		
certificationAgency	Global/Local	T.P.Neutral		
certificationAssessmentDateTime	Global/Local	T.P.Neutral		
certificationEffectiveEndDateTime	Global/Local	T.P.Neutral		
certificationEffectiveStartDateTime	Global/Local	T.P.Neutral		
certificationIdentification	Global/Local	T.P.Neutral		
certificationOrganisationIdentifier	Global/Local	T.P.Neutral		
certificationStandard	Global/Local	T.P.Neutral		
certificationValue	Global/Local	T.P.Neutral		
cheeseMaturationPeriodDescription	Global/Local	T.P.Neutral	No	No
cheeseMaturationProcessContainerTypeCode	Global/Local	T.P.Neutral		
chemicalIngredientConcentration	Global/Local	T.P.Neutral	No	No
chemicalIngredientConcentrationBasis	Global/Local	T.P.Neutral	No	No
chemicalIngredientIdentification	Global/Local	T.P.Neutral		
chemicalIngredientName	Global/Local	T.P.Neutral		
chemicalIngredientOrganisation	Global/Local	T.P.Neutral		
chemicalIngredientScheme	Global/Local	T.P.Neutral		
chemicalPhysicalStateCode	Global/Local	T.P.Neutral		
chemicalPropertyAdditionalDescription	Global/Local	T.P.Neutral	No	Yes
chemicalPropertyCode	Global/Local	T.P.Neutral		
chemicalPropertyName	Global/Local	T.P.Neutral		
chemicalPropertyTypeCode	Global/Local	T.P.Neutral		
chemicalRegulationAgency	Global/Local	T.P.Neutral		
chemicalRegulationName	Global/Local	T.P.Neutral		
clampPressure	Global/Local	T.P.Neutral	No	No
classOfDangerousGoods	Global/Local	T.P.Neutral		
closedCaptioningCode	Global/Local	T.P.Neutral		
closureOrFastenerTypeCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
closureOrFastenerLocation	Global/Local	T.P.Neutral	No	Yes
clothingCut	Global/Local	T.P.Neutral	No	Yes
collarType	Global/Local	T.P.Neutral	No	No
collectionIdentifier	Global/Local	T.P.Neutral		
collectionIdentifierTypeCode	Global/Local	T.P.Neutral		
collectionTypeCodeReference	Global/Local	T.P.Neutral		
colorDescription	Global	T.P.Neutral	No	Yes
colourCode	Global	T.P.Neutral		
combFilterTechnologyTypeCode	Global/Local	T.P.Neutral		
communityVisibilityDateTime	Local	T.P.Neutral		
componentDescription	Global/Local	T.P.Neutral	No	Yes
componentIdentification	Global/Local	T.P.Neutral		
componentNumber	Global/Local	T.P.Neutral		
componentsLabeledForDisassemblyRecyclingPercent	Global	T.P.Neutral		
compulsoryAdditiveLabelInformation	Global/Local	T.P.Neutral	No	Yes
conditionsToAvoid	Global/Local	T.P.Neutral	Yes	Yes
connectorFinishDescription	Global/Local	T.P.Neutral	No	Yes
consumerFirstAvailabilityDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
consumerPackageDisclaimer	Global/Local	T.P.Neutral	Yes	Yes
consumerSafetyInformation	Global/Local	T.P.Neutral	Yes	Yes
consumerSalesConditionCode	Global/Local	T.P.Neutral		
consumerStorageInstructions	Global/Local	T.P.Neutral	Yes	Yes
consumerUsageInstructions	Global/Local	T.P.Neutral	Yes	Yes
contactAddress	Global/Local	T.P.Neutral		
contactDescription	Global/Local	T.P.Neutral	Yes	Yes
contactName	Global/Local	T.P.Neutral		
contactTypeCode	Global/Local	T.P.Neutral		
contentDate	Global/Local	T.P.Neutral		
contentDateRoleTypeCode	Global/Local	T.P.Neutral		
contentDescription	Global/Local	T.P.Neutral	No	No
contentsDescription	Global/Local	T.P.Neutral	No	No
controlledSubstanceCode	Global/Local	T.P.Neutral		
contributorDate	Global/Local	T.P.Neutral		
contributorDescription	Global/Local	T.P.Neutral	No	No
contributorPlaceCountry	Global/Local	T.P.Neutral		
contributorPlaceRegion	Global/Local	T.P.Neutral		
contributorPlaceTypeCode	Global/Local	T.P.Neutral		
contributorRoleCode	Global/Local	T.P.Neutral		
contributorStatement	Global/Local	T.P.Neutral	No	No
controlledSubstanceAmount	Global/Local	T.P.Neutral	No	No
controlledSubstanceName	Global/Local	T.P.Neutral		
controlledSubstanceScheduleCodeReference	Global/Local	T.P.Neutral		
controlOfHazardousSubstancesRegulationsAgency	Global/Local	T.P.Neutral		
controlOfHazardousSubstancesRegulationsRegulationName	Global/Local	T.P.Neutral		
convenienceLevelPercent	Global/Local	T.P.Neutral		
copyrightFee	Global/Local	T.P.Neutral	No	No

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
copyrightOwnerIdentifier	Global/Local	T.P.Neutral		
copyrightOwnerIdentifierTypeCodeReference	Global/Local	T.P.Neutral		
copyrightRate	Global/Local	T.P.Neutral		
copyrightYear	Global/Local	T.P.Neutral		
corporateName	Global/Local	T.P.Neutral		
corporateNameInverted	Global/Local	T.P.Neutral		
countryOfOriginStatement	Global/Local	T.P.Neutral	Yes	Yes
couponFamilyCode	Local	T.P.Neutral		
cumulativeEnergyDemand	Global/Local	T.P.Neutral	No	No
cumulativeEnergyDemandDescription	Global/Local	T.P.Neutral	No	Yes
cumulativeEnergyDemandProtocolCode	Global/Local	T.P.Neutral		
cumulativeEnergyDemandProtocolDescription	Global/Local	T.P.Neutral	No	Yes
cumulativeEnergyDemandReferenceSubstanceCode	Global/Local	T.P.Neutral		
cumulativeEnergyDemandReferenceSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
cumulativeEnergyDemandTypeCode	Global/Local	T.P.Neutral		
cumulativeHumidityInterruptionAcceptableTimeSpan	Global/Local	T.P.Neutral		
cumulativeHumidityInterruptionAcceptableTimeSpanInstructions	Global/Local	T.P.Neutral	No	No
cumulativeTemperatureInterruptionAcceptableTimeSpan	Global/Local	T.P.Neutral		
cumulativeTemperatureInterruptionAcceptableTimeSpanInstructions	Global/Local	T.P.Neutral	No	No
dailyValueIntakePercent	Global/Local	T.P.Neutral		
dailyValueIntakeReference	Global/Local	T.P.Neutral	No	Yes
dangerousGoodsClassificationCode	Global/Local	T.P.Neutral		
dangerousGoodsHazardousCode	Global/Local	T.P.Neutral		
dangerousGoodsPackingGroup	Global/Local	T.P.Neutral		
dangerousGoodsRegulationAgency	Global/Local	T.P.Neutral		
dangerousGoodsRegulationCode	Global/Local	T.P.Neutral		
dangerousGoodsShippingName	Global/Local	T.P.Neutral		
dangerousGoodsSpecialProvisions	Global/Local	T.P.Neutral		
dangerousGoodsTechnicalName	Global/Local	T.P.Neutral	No	Yes
dangerousGoodsTransportCategoryCode	Global/Local	T.P.Neutral		
dangerousHazardousLabelNumber	Global/Local	T.P.Neutral		
dangerousHazardousLabelSequenceNumber	Global/Local	T.P.Neutral		
dangerousSubstanceGasDensity	Global/Local	T.P.Neutral	No	No
dangerousSubstanceHeatOfCombustion	Global/Local	T.P.Neutral	No	No
dangerousSubstanceName	Global/Local	T.P.Neutral		
dangerousSubstancePhaseOfMatterCode	Global/Local	T.P.Neutral		
dangerousSubstancesWaterSolubilityCode	Global/Local	T.P.Neutral		
dangerousSubstanceWasteCode	Global/Local	T.P.Neutral		
dataCarrierFamilyTypeCode	Global	T.P.Neutral		
dataCarrierPresenceCode	Global/Local	T.P.Neutral		
dataCarrierTypeCode	Global	T.P.Neutral		
degreeOfOriginalWort	Global/Local	T.P.Neutral		
depositValueEffectiveDateTime	Global/Local	T.P.Neutral		
depositValueEndDateTime	Global/Local	T.P.Neutral		
depth	Global/Local	T.P.Neutral	No	No
descriptionShort	Global	T.P.Neutral	No	Yes
descriptionSource	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
descriptiveSize	Global	T.P.Neutral	No	No
descriptiveSizeDimension	Global	T.P.Neutral	No	No
designer	Global/Local	T.P.Neutral	Yes	Yes
detachableSpeakerTypeCode	Global/Local	T.P.Neutral		
diameter	Global/Local	T.P.Neutral	No	No
dietCertification	Global/Local	T.P.Neutral		
dietTypeCode	Global/Local	T.P.Neutral		
dietTypeDescription	Global/Local	T.P.Neutral	No	Yes
dietTypeSubcode	Global/Local	T.P.Neutral		
digitalisationLevelCode	Global/Local	T.P.Neutral		
dimensionTypeCode	Global/Local	T.P.Neutral		
discNumber	Global/Local	T.P.Neutral		
discontinuedDateTime	Global/Local	T.P.Neutral		
discountAmount	Global/Local	T.P.Neutral & T.P.Dependent	No	No
discountDescription	Global/Local	T.P.Neutral & T.P.Dependent	No	Yes
discountPercent	Global/Local	T.P.Neutral & T.P.Dependent		
discountType	Global/Local	T.P.Neutral & T.P.Dependent		
displayPanelBacklightType	Global/Local	T.P.Neutral		
displayResolutionCode	Global/Local	T.P.Neutral		
displayScreenBezelSize	Global/Local	T.P.Neutral	No	Yes
displayScreenSize	Global/Local	T.P.Neutral	No	Yes
displayScreenTypeCode	Global/Local	T.P.Neutral		
displayTypeCode	Global/Local	T.P.Neutral		
distributionMediaCount	Global/Local	T.P.Neutral		
distributionMediaTypeCode	Global/Local	T.P.Neutral		
distributionMethodCode	Global/Local	T.P.Neutral & T.P.Dependent		
doesItemComeWithHanger	Global/Local	T.P.Neutral		
doesItemContainAControlledSubstance	Global/Local	T.P.Neutral		
doesManufacturerHaveTakeBackProgram	Global/Local	T.P.Neutral		
doesPackagingHaveWheels	Global/Local	T.P.Neutral		
doesPackagingRecoveryRateTypeCodeMeetTheStandard	Global/Local	T.P.Neutral		
doesSaleOfTradeItemRequireGovernmentalReporting	Global/Local	T.P.Neutral		
doesTradeItemCompositionIncludeLatex	Global/Local	T.P.Neutral		
doesTradeItemContainHumanBloodDerivative	Global/Local	T.P.Neutral		
doesTradeItemContainLatex	Global/Local	T.P.Neutral		
doesTradeItemContainPesticide	Global	T.P.Neutral		
doesTradeItemContainPropellant	Global	T.P.Neutral		
doesTradeItemHaveAutoReaderTracker	Global/Local	T.P.Neutral		
doesTradeItemHaveRefuseObligations	Global/Local	T.P.Neutral		
doPackagingMaterialsContainLatex	Global/Local	T.P.Neutral		
drainedWeight	Global/Local	T.P.Neutral	No	No
dropBelowMinimumHumidityAcceptableTimeSpan	Global/Local	T.P.Neutral		
dropBelowMinimumTemperatureAcceptableTimeSpan	Global/Local	T.P.Neutral		
dubbedLanguageCode	Global/Local	T.P.Neutral		
dubbedSubtitledCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
dutyFeeTaxAgencyCode	Global/Local	T.P.Neutral		
dutyFeeTaxAgencyName	Global/Local	T.P.Neutral		
dutyFeeTaxAmount	Global/Local	T.P.Neutral	No	No
dutyFeeTaxBasis	Global/Local	T.P.Neutral	Yes	Yes
dutyFeeTaxBasisPrice	Global/Local	T.P.Neutral	No	Yes
dutyFeeTaxCategoryCode	Global/Local	T.P.Neutral		
dutyFeeTaxClassificationCode	Global/Local	T.P.Neutral		
dutyFeeTaxCountryCode	Global/Local	T.P.Neutral		
dutyFeeTaxCountrySubdivisionCode	Global/Local	T.P.Neutral		
dutyFeeTaxCountrySubdivisionShipFromCode	Global/Local	T.P.Neutral		
dutyFeeTaxCountrySubdivisionShipToCode	Global/Local	T.P.Neutral		
dutyFeeTaxEffectiveEndDateTime	Global/Local	T.P.Neutral		
dutyFeeTaxEffectiveStartDateTime	Global/Local	T.P.Neutral		
dutyFeeTaxExemptPartyRoleCode	Global/Local	T.P.Neutral		
dutyFeeTaxLegalProvision	Global/Local	T.P.Neutral	No	Yes
dutyFeeTaxRate	Global/Local	T.P.Neutral		
dutyFeeTaxReductionCriteriaDescription	Global/Local	T.P.Neutral	No	No
dutyFeeTaxTypeCode	Global/Local	T.P.Neutral		
dutyFeeTaxTypeDescription	Global/Local	T.P.Neutral	No	No
dvdRegionCode	Global/Local	T.P.Neutral		
dynamicContrastRatio	Global/Local	T.P.Neutral		
ecologicalInformationDescription	Global/Local	T.P.Neutral	No	Yes
editionDescription	Global/Local	T.P.Neutral	No	No
editionNumber	Global/Local	T.P.Neutral		
editionStatement	Global/Local	T.P.Neutral	No	No
editionTypeCode	Global/Local	T.P.Neutral		
educationalFocusDescription	Global/Local	T.P.Neutral	No	Yes
editionVersionNumber	Global/Local	T.P.Neutral		
effectiveDateTime	Global/Local	T.P.Neutral		
electronicProgrammingGuideDaysAvailable	Global/Local	T.P.Neutral		
endAvailabilityDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
endDateTimeOfExclusivity	Global/Local	T.P.Neutral & T.P.Dependent		
endMaximumBuyingQuantityDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
endMinimumBuyingQuantityDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
enumerationValue	Global/Local	T.P.Neutral		
enumerationValueDefinition	Global/Local	T.P.Neutral	No	No
enumerationValueDescription	Global/Local	T.P.Neutral	No	No
epubTechnicalProtectionTypeCode	Global/Local	T.P.Neutral		
epubUsageLimit	Global/Local	T.P.Neutral		
epubUsageStatus	Global/Local	T.P.Neutral		
epubUsageType	Global/Local	T.P.Neutral		
eRGNumber	Global/Local	T.P.Neutral		
exactPH	Global	T.P.Neutral		
experienceLevel	Global/Local	T.P.Neutral	No	Yes
extentTypeCode	Global/Local	T.P.Neutral		
extentUnitCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
extentValue	Global/Local	T.P.Neutral		
extentValueRoman	Global/Local	T.P.Neutral		
externalAgencyName	Global/Local	T.P.Neutral		
externalCodeListName	Global/Local	T.P.Neutral		
externalCodeListVersion	Global/Local	T.P.Neutral		
externalMemoryTypeCode	Global/Local	T.P.Neutral		
extinguishingMediaDescription	Global/Local	T.P.Neutral	No	Yes
extremelyHazardousSubstanceQuantity	Global/Local	T.P.Neutral	No	No
facilitiesInStressedWaterAreaCalculationMethod	Global/Local	T.P.Neutral	No	Yes
facilitiesInStressedWaterAreaPercent	Global/Local	T.P.Neutral		
fatInMilkContent	Global/Local	T.P.Neutral		
fatPercentageInDryMatter	Global/Local	T.P.Neutral		
feedingAmount	Global/Local	T.P.Neutral	No	Yes
feedingAmountBasisDescription	Global/Local	T.P.Neutral	No	Yes
feedLifestage	Global/Local	T.P.Neutral	No	Yes
fileAspectRatio	Global	T.P.Neutral		
fileAuthorName	Global	T.P.Neutral		
fileBackgroundColourDescription	Global	T.P.Neutral	Yes	Yes
fileCameraPerspective	Global	T.P.Neutral	Yes	Yes
fileCameraPerspectiveCode	Global/Local	T.P.Neutral		
fileCampaignDescription	Global	T.P.Neutral	Yes	Yes
fileColourCalibration	Global	T.P.Neutral	Yes	Yes
fileColourSchemeCode	Global	T.P.Neutral		
fileCompressionType	Global	T.P.Neutral	Yes	Yes
fileContrast	Global	T.P.Neutral		
fileCopyrightDescription	Global	T.P.Neutral	Yes	Yes
fileCreationProgram	Global	T.P.Neutral		
fileDepictedSceneDescription	Global	T.P.Neutral	Yes	Yes
fileDepictedSeason	Global	T.P.Neutral	Yes	Yes
fileDisclaimerInformation	Global/Local	T.P.Neutral	Yes	Yes
fileEffectiveEndDateTime	Global/Local	T.P.Neutral		
fileEffectiveStartDateTime	Global/Local	T.P.Neutral		
fileFeeDescription	Global/Local	T.P.Neutral	Yes	Yes
fileFormatDescription	Global/Local	T.P.Neutral	No	No
fileFormatName	Global/Local	T.P.Neutral		
fileItemPositionCode	Global	T.P.Neutral		
fileLanguageCode	Global	T.P.Neutral		
fileLayerQuantity	Global	T.P.Neutral		
fileLifeStyleDescription	Global	T.P.Neutral	Yes	Yes
fileName	Global/Local	T.P.Neutral		
fileOptimalViewerName	Global	T.P.Neutral		
fileOriginCountryCode	Global/Local	T.P.Neutral		
filePixelHeight	Global/Local	T.P.Neutral		
filePixelWidth	Global/Local	T.P.Neutral		
filePlaybackRate	Global	T.P.Neutral		
filePrintHeight	Global	T.P.Neutral	No	Yes
filePrintWidth	Global	T.P.Neutral	No	Yes
fileRecommendedUsageDescription	Global	T.P.Neutral	Yes	Yes

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
fileResolutionDescription	Global	T.P.Neutral	No	No
fileRightsDescription	Global/Local	T.P.Neutral	Yes	Yes
fileRunTime	Global	T.P.Neutral		
fileSize	Global	T.P.Neutral	Yes	Yes
fileStoryDescription	Global	T.P.Neutral	Yes	Yes
fileTalentDescription	Global	T.P.Neutral	Yes	Yes
fileUsageRestriction	Global	T.P.Neutral	Yes	Yes
fileVersion	Global	T.P.Neutral		
fireFighterProtectiveEquipmentDescription	Global/Local	T.P.Neutral	No	Yes
firstAidProceduresDescription	Global/Local	T.P.Neutral	No	Yes
firstdeliverydatetime	Global/Local	T.P.Neutral & T.P.Dependent		
firstOrderDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
firstReturnableDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
firstShipDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
fishMeatPoultryTypeCodeReference	Global/Local	T.P.Neutral		
fixedSpeakerLocationCode	Global/Local	T.P.Neutral		
flammableAerosolContainmentCode	Global/Local	T.P.Neutral		
flammableGasWeight	Global/Local	T.P.Neutral	No	No
flammablePropertiesDescription	Global/Local	T.P.Neutral	No	Yes
flammableSubstanceMaximumPercent	Global/Local	T.P.Neutral		
flammableSubstanceMinimumPercent	Global/Local	T.P.Neutral		
flashPointTemperature	Global/Local	T.P.Neutral	No	Yes
flashPointTestMethodCode	Global/Local	T.P.Neutral		
foodBeverageCompositionCode	Global/Local	T.P.Neutral		
foodBeverageCompositionDatabaseCode	Global/Local	T.P.Neutral		
foodBeverageCompositionDescription	Global/Local	T.P.Neutral		
freeQuantityOfNextLowerLevelTradeItem	Global/Local	T.P.Neutral	No	Yes
freeQuantityOfProduct	Global/Local	T.P.Neutral	No	Yes
freezingMeltingPoint	Global/Local	T.P.Neutral	No	Yes
freshWaterEcotoxicityMeasurement	Global/Local	T.P.Neutral	No	No
freshWaterEcotoxicityModelCode	Global/Local	T.P.Neutral		
freshWaterEcotoxicityModelDescription	Global/Local	T.P.Neutral	No	Yes
freshWaterEcotoxicityReferenceSubstanceCode	Global/Local	T.P.Neutral		
freshWaterEcotoxicityReferenceSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
fromLanguage	Global/Local	T.P.Neutral		
functionalBasisUnitCode	Global/Local	T.P.Neutral		
functionalBasisUnitDescription	Global/Local	T.P.Neutral	No	Yes
functionalName	Global/Local	T.P.Neutral	No	Yes
gameFormatCode	Global/Local	T.P.Neutral		
geneticallyModifiedDeclarationCode	Global/Local	T.P.Neutral		
genreTypeCodeReference	Global/Local	T.P.Neutral		
genus	Global	T.P.Neutral		
gHSSignalWordsCode	Global/Local	T.P.Neutral		
gHSSymbolDescriptionCode	Global/Local	T.P.Neutral		
globalWarmingPotentialEquivalent	Global/Local	T.P.Neutral	No	No
globalWarmingPotentialEquivalentBasisYearsCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
globalWarmingPotentialEquivalentBasisYearsDescription	Global/Local	T.P.Neutral	No	Yes
globalWarmingPotentialEquivalentProtocolCode	Global/Local	T.P.Neutral		
globalWarmingPotentialEquivalentProtocolDescription	Global/Local	T.P.Neutral	No	Yes
globalWarmingPotentialEquivalentSubstanceCode	Global/Local	T.P.Neutral		
globalWarmingPotentialEquivalentSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
goodsPickUpLeadTime	Global/Local	T.P.Neutral	No	No
gpcAttributeTypeCode	Global	T.P.Neutral		
gpcAttributeTypeDefinition	Global	T.P.Neutral		
gpcAttributeTypeName	Global	T.P.Neutral		
gpcAttributeValueCode	Global	T.P.Neutral		
gpcAttributeValueName	Global	T.P.Neutral		
gpcCategoryCode	Global	T.P.Neutral		
gpcCategoryDefinition	Global	T.P.Neutral		
gpcCategoryName	Global	T.P.Neutral		
gradeCodeReference	Global/Local	T.P.Neutral		
grai	Global	T.P.Neutral		
grapeVarietyCode	Global/Local	T.P.Neutral		
grossWeight	Global/Local	T.P.Neutral	No	No
growingMethodCode	Global/Local	T.P.Neutral		
gs1TradeItemIdentificationKeyCode	Global/Local	T.P.Neutral		
gs1TradeItemIdentificationKeyValue	Global/Local	T.P.Neutral		
gtin	Global	T.P.Neutral		
handlingInstructionsCodeReference	Global	T.P.Neutral		
handlingInstructionsDescription	Global	T.P.Neutral	No	Yes
hasBatchNumber	Local	T.P.Neutral		
hasCancerousProperties	Global/Local	T.P.Neutral		
hasDisplayReadyPackaging	Global/Local	T.P.Neutral		
hasParentalAdvisorySticker	Global/Local	T.P.Neutral		
haveYouMinimizedHazardousSubstance	Global/Local	T.P.Neutral		
hazardousClassSubsidiaryRiskCode	Global/Local	T.P.Neutral		
hazardousMaterialAdditionalInformation	Global/Local	T.P.Neutral	No	No
hazardousMaterialsHandlingProcedures	Global/Local	T.P.Neutral	Yes	Yes
hazardousSubstancesMinimizationCode	Global/Local	T.P.Neutral		
hazardousWasteAgency	Global/Local	T.P.Neutral		
hazardousWasteCode	Global/Local	T.P.Neutral		
hazardousWasteDescription	Global/Local	T.P.Neutral	No	Yes
hazardStatementsCode	Global/Local	T.P.Neutral		
hazardStatementsDescription	Global/Local	T.P.Neutral	No	Yes
hDMITestingAgencyCode	Global/Local	T.P.Neutral		
healthClaimCode	Global/Local	T.P.Neutral		
healthClaimDescription	Global/Local	T.P.Neutral	Yes	Yes
height	Global/Local	T.P.Neutral	No	No
horizontalViewingAngle	Global/Local	T.P.Neutral		
humidityQualifierCode	Global/Local	T.P.Neutral		
illegalToAdvertiseTargetMarket	Global/Local	T.P.Neutral		
illustrationNote	Global/Local	T.P.Neutral	No	No
illustrationTypeCode	Global/Local	T.P.Neutral		
importClassificationCountrySubdivisionRegionOfOrigin	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
importClassificationTypeCode	Global/Local	T.P.Neutral		
importClassificationValue	Global/Local	T.P.Neutral		
inBoxCubeDimension	Global/Local	T.P.Neutral	No	No
includedOperatingSystem	Global/Local	T.P.Neutral		
incotermCode	Global/Local	T.P.Neutral		
incotermCodeLocation	Global/Local	T.P.Neutral		
incotermCountryCode	Global/Local	T.P.Neutral		
individualUnitMaximumSize	Global/Local	T.P.Neutral	No	No
individualUnitMinimumSize	Global/Local	T.P.Neutral	No	No
informationProviderOfTradeItem	Global	T.P.Neutral		
ingredientContentPercentage	Global/Local	T.P.Neutral		
ingredientCountryOfOriginCode	Global/Local	T.P.Neutral		
ingredientGeneticallyModifiedDeclarationCode	Global/Local	T.P.Neutral		
ingredientGrowingMethodCode	Global/Local	T.P.Neutral		
ingredientIrradiatedCode	Global/Local	T.P.Neutral		
ingredientName	Global/Local	T.P.Neutral	No	Yes
ingredientOfConcernCode	Global/Local	T.P.Neutral		
ingredientPurpose	Global/Local	T.P.Neutral		
ingredientSequence	Global/Local	T.P.Neutral		
ingredientSourceAnimalCode	Global/Local	T.P.Neutral		
ingredientStatement	Global/Local	T.P.Neutral	No	Yes
ingredientStrength	Global/Local	T.P.Neutral	No	No
ingredientStrengthBasis	Global/Local	T.P.Neutral	No	No
initialManufacturerSterilisationCode	Global/Local	T.P.Neutral		
initialSterilisationPriorToUseCode	Global/Local	T.P.Neutral		
intendedPublicationCountryCode	Global/Local	T.P.Neutral		
intendedPublicationMediaTypeDescription	Global/Local	T.P.Neutral	Yes	Yes
internalMemoryTypeCode	Global/Local	T.P.Neutral		
invoiceName	Global	T.P.Neutral	No	Yes
irradiatedCode	Global/Local	T.P.Neutral		
isAcutelyHazardousWaste	Global/Local	T.P.Neutral		
isAssemblyRequired	Global	T.P.Neutral		
isBarCodeDerivable	Global	T.P.Neutral		
isBarCodeOnPackageVariableMeasureBarCode	Global	T.P.Neutral		
isBasePriceDeclarationRelevant	Global/Local	T.P.Neutral		
isDangerousSubstance	Global/Local	T.P.Neutral		
isDangerousSubstanceAMixture	Global/Local	T.P.Neutral		
isDigitalDownloadAvailable	Global/Local	T.P.Neutral		
isDiscountingIllegal	Global/Local	T.P.Neutral		
isDistributionMethodPrimary	Global/Local	T.P.Neutral		
isEligibleForRevenueShare	Global/Local	T.P.Neutral		
isFileBackgroundTransparent	Global	T.P.Neutral		
isFileForInternalUseOnly	Global	T.P.Neutral		
isHomogenised	Global/Local	T.P.Neutral		
isIngredientActive	Global/Local	T.P.Neutral		
isIngredientGeneric	Global/Local	T.P.Neutral		
isNetContentDeclarationIndicated	Global/Local	T.P.Neutral		
isNonfoodIngredientEmphasized	Global/Local	T.P.Neutral		
isNonGTINLogisticsUnitPackedIrregularly	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
isNonSoldTradeItemReturnable	Global/Local	T.P.Neutral		
isOneTimeBuy	Global/Local	T.P.Neutral		
isPackagingExemptFromRefuseObligation	Global/Local	T.P.Neutral		
isPackagingMarkedReturnable	Global	T.P.Neutral		
isPackagingMarkedWithIngredients	Local	T.P.Neutral		
isPackagingMarkedWithRegulatoryCompliance	Global/Local	T.P.Neutral		
isPackagingMaterialRecoverable	Global/Local	T.P.Neutral		
isPackagingReturnable	Global/Local	T.P.Neutral		
isPackagingSuitableForAirShipment	Global/Local	T.P.Neutral		
isPermitOrLicenseRequiredToSell	Global/Local	T.P.Neutral		
isPriceOnPack	Global	T.P.Neutral		
isPrimaryMaterial	Global/Local	T.P.Neutral		
isProductCustomizable	Global/Local	T.P.Neutral		
isProhibitedForTransportation	Global/Local	T.P.Neutral		
isRadioFrequencyIDOnPackaging	Global/Local	T.P.Neutral		
isRegulatedForTransportation	Global/Local	T.P.Neutral		
isReturnableAssetEmpty	Global/Local	T.P.Neutral		
isRindEdible	Global/Local	T.P.Neutral		
isSubstanceOfVeryHighConcern	Global/Local	T.P.Neutral		
isTalentReleaseOnFile	Global	T.P.Neutral		
isTradeItemABaseUnit	Global	T.P.Neutral		
isTradeItemACombinationItem	Global/Local	T.P.Neutral		
isTradeItemAConsumerUnit	Global	T.P.Neutral		
isTradeItemADespatchUnit	Global/Local	T.P.Neutral & T.P.Dependent		
isTradeItemADisplayUnit	Global	T.P.Neutral		
isTradeItemAnInvoiceUnit	Global/Local	T.P.Neutral & T.P.Dependent		
isTradeItemAnOrderableUnit	Global/Local	T.P.Neutral & T.P.Dependent		
isTradeItemAService	Global	T.P.Neutral		
isTradeItemAutomaticPowerDownEnabled	Global	T.P.Neutral		
isTradeItemAVariableUnit	Global	T.P.Neutral		
isTradeItemChemicalNotIntendedForHumanConsumption	Global	T.P.Neutral		
isTradeItemConsideredDopingProduct	Global/Local	T.P.Neutral		
isTradeItemConsideredGeneric	Global/Local	T.P.Neutral		
isTradeItemConsumerUpgradeableOrMaintainable	Global	T.P.Neutral		
isTradeItemDesignedForEasyDisassembly	Global	T.P.Neutral		
isTradeItemHanging	Global/Local	T.P.Neutral		
isTradeItemImplantable	Global	T.P.Neutral		
isTradeItemMarkedAsRecyclable	Global/Local	T.P.Neutral		
isTradeItemMarkedNoShake	Global/Local	T.P.Neutral		
isTradeItemNonphysical	Global	T.P.Neutral		
isTradeItemPackedIrregularly	Global	T.P.Neutral		
isTradeItemREACHRelevant	Local	T.P.Neutral		
isTradeItemRecalled	Global/Local	T.P.Neutral		
isTradeItemReconditioned	Global	T.P.Neutral		
isTradeItemReorderable	Global/Local	T.P.Neutral		
isTradeItemRequiredToRemainSterile	Global	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
isTradeItemRigidPlasticPackagingContainer	Global	T.P.Neutral		
isTradeItemROHSCompliant	Global	T.P.Neutral		
isTradeItemSeasonal	Local	T.P.Neutral		
isTradeItemShippedInMultipleContainers	Local	T.P.Neutral		
isTradeItemSizeBasedPricing	Global/Local	T.P.Neutral		
isTradeItemUniversalWaste	Global	T.P.Neutral		
isUniversalWaste	Global/Local	T.P.Neutral		
itemDepictionTypeCode	Global	T.P.Neutral		
itemsInFileDescription	Global	T.P.Neutral	Yes	Yes
itemMinimumDurability	Global/Local	T.P.Neutral	No	Yes
juiceContentPercent	Global/Local	T.P.Neutral		
keyNames	Global/Local	T.P.Neutral		
labelDescription	Global/Local	T.P.Neutral	Yes	Yes
languageSpecificBrandName	Global/Local	T.P.Neutral	No	Yes
languageSpecificSubBrandName	Global/Local	T.P.Neutral	No	Yes
lastChangeDateTime	Global	T.P.Neutral		
lastOrderDateTime	Global/Local	T.P.Neutral		
lastReturnableDateTime	Global/Local	T.P.Neutral		
lastShipDateTime	Global/Local	T.P.Neutral		
layerHeight	Global	T.P.Neutral	No	No
lethalConcentration50	Global/Local	T.P.Neutral	No	No
lethalConcentration50Basis	Global/Local	T.P.Neutral	No	No
lethalDose50	Global/Local	T.P.Neutral	No	No
lethalDose50Basis	Global/Local	T.P.Neutral	No	No
lettersAfterNames	Local	T.P.Neutral		
levelOfContainmentCode	Global/Local	T.P.Neutral		
logisticsUnitStackingFactor	Global	T.P.Neutral		
longSynopsis	Global/Local	T.P.Neutral	No	No
lowerExplosiveLimit	Local	T.P.Neutral		
mainSubject	Global/Local	T.P.Neutral		
manufacturerDeclaredReusabilityTypeCode	Global/Local	T.P.Neutral		
manufacturerOfTradeItem	Global	T.P.Neutral		
manufacturerPreparationTypeCode	Global/Local	T.P.Neutral		
manufacturerSpecifiedAcceptableResterilisationCode	Global/Local	T.P.Neutral		
manufacturerTakeBackProgramFee	Global/Local	T.P.Neutral	No	Yes
mapScale	Global/Local	T.P.Neutral		
marinePollutantTechnicalName	Global/Local	T.P.Neutral		
massEquivalentCode	Global/Local	T.P.Neutral		
massEquivalentMeasurement	Global/Local	T.P.Neutral	No	No
massEquivalentProtocolCode	Global/Local	T.P.Neutral		
massEquivalentProtocolDescription	Global/Local	T.P.Neutral	No	Yes
massEquivalentSubstanceCodeReference	Global/Local	T.P.Neutral		
massEquivalentSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
materialAgencyCode	Global	T.P.Neutral		
materialCode	Global	T.P.Neutral		
materialContent	Global	T.P.Neutral	No	No
materialPercentage	Global	T.P.Neutral		
materialThreadCount	Global/Local	T.P.Neutral	No	No

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
materialWeight	Global/Local	T.P.Neutral	No	No
maturationMethodCode	Global/Local	T.P.Neutral		
maximumAge	Global/Local	T.P.Neutral		
maximumCyclesReusable	Global	T.P.Neutral		
maximumFeedingAmount	Global/Local	T.P.Neutral	No	Yes
maximumHumidityAcceptableTimeSpan	Global/Local	T.P.Neutral		
maximumHumidityPercentage	Global/Local	T.P.Neutral		
maximumNumberOfPlayers	Global/Local	T.P.Neutral		
maximumNumberOfSmallestUnitsPerPackage	Global/Local	T.P.Neutral		
maximumOptimumConsumptionTemperature	Global/Local	T.P.Neutral	No	Yes
maximumPH	Global	T.P.Neutral		
maximumResolution	Global/Local	T.P.Neutral	No	Yes
maximumReusableDays	Global/Local	T.P.Neutral		
maximumTemperature	Global/Local	T.P.Neutral	No	No
maximumTemperatureAcceptableTimeSpan	Global/Local	T.P.Neutral		
maximumToleranceTemperature	Global/Local	T.P.Neutral	No	No
maximumWeightOfAnimalBeingFed	Global/Local	T.P.Neutral	No	Yes
measurementPrecisionCode	Global/Local	T.P.Neutral		
meshMaterialCode	Global/Local	T.P.Neutral		
meshSizeCode	Global/Local	T.P.Neutral		
microbiologicalOrganismCode	Global/Local	T.P.Neutral		
microbiologicalOrganismMaximumValue	Global/Local	T.P.Neutral	No	No
microbiologicalOrganismReferenceValue	Global/Local	T.P.Neutral	No	No
microbiologicalOrganismWarningValue	Global/Local	T.P.Neutral	No	No
microphoneTypeCode	Global/Local	T.P.Neutral		
minimumAge	Global/Local	T.P.Neutral		
minimumFeedingAmount	Global/Local	T.P.Neutral	No	Yes
minimumWeightOfAnimalBeingFed	Global/Local	T.P.Neutral	No	Yes
minimumFishMeatPoultryContent	Global/Local	T.P.Neutral	No	Yes
minimumHumidityPercentage	Global/Local	T.P.Neutral		
minimumNumberOfPlayers	Global/Local	T.P.Neutral		
minimumOptimumConsumptionTemperature	Global/Local	T.P.Neutral	No	Yes
minimumPH	Global	T.P.Neutral		
minimumTemperature	Global/Local	T.P.Neutral	No	No
minimumToleranceTemperature	Global/Local	T.P.Neutral	No	No
minimumTradeItemLifespanFromTimeOfArrival	Global/Local	T.P.Neutral & T.P.Dependent		
minimumTradeItemLifespanFromTimeOfProduction	Global/Local	T.P.Neutral & T.P.Dependent		
mRCompatibilityCode	Global	T.P.Neutral		
multiPictureDisplayCapabilityTypeCode	Global/Local	T.P.Neutral		
musicPerformanceType	Global/Local	T.P.Neutral		
nameAsSubject	Global/Local	T.P.Neutral		
namesAfterKey	Global/Local	T.P.Neutral		
namesBeforeKey	Global/Local	T.P.Neutral		
nameTypeCode	Global/Local	T.P.Neutral		
nestingDirectionCode	Global	T.P.Neutral		
nestingIncrement	Global	T.P.Neutral	Yes	Yes
nestingTypeCode	Global	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
netContent	Global	T.P.Neutral	No	Yes
netMassOfExplosives	Global/Local	T.P.Neutral	No	No
netWeight	Global/Local	T.P.Neutral	No	No
nominalInsideDiameter	Global/Local	T.P.Neutral	No	No
nominalOutsideDiameter	Global/Local	T.P.Neutral	No	No
nonfoodIngredientCodeReference	Global/Local	T.P.Neutral		
nonfoodIngredientDefinition	Global/Local	T.P.Neutral	Yes	Yes
nonfoodIngredientName	Global/Local	T.P.Neutral		
nonfoodIngredientPurpose	Global/Local	T.P.Neutral	Yes	Yes
nonhazardousWasteDescription	Global/Local	T.P.Neutral	Yes	Yes
nonMarkedTradeItemComponents	Global/Local	T.P.Neutral	No	No
nonPromotionalTradeItem	Global/Local	T.P.Neutral		
noteToPhysician	Global/Local	T.P.Neutral	No	Yes
numberOfCyclesPriorToWithdrawal	Global/Local	T.P.Neutral		
numberOfFacilitiesInStressedWaterArea	Global/Local	T.P.Neutral		
numberOfIllustratedPages	Global/Local	T.P.Neutral		
numberOfIllustrations	Global/Local	T.P.Neutral		
numberOfItemsInDigitalAsset	Global	T.P.Neutral		
numberOfPackagesForSetPiecesGTIN	Global/Local	T.P.Neutral		
numberOfPiecesInSet	Global/Local	T.P.Neutral		
numberOfServingsPerPackage	Global/Local	T.P.Neutral		
numberOfServingsPerPackageMeasurementPrecisionCode	Global/Local	T.P.Neutral		
numberOfSmallestUnitsPerPackage	Global/Local	T.P.Neutral		
nutrientBasisQuantity	Global/Local	T.P.Neutral	No	No
nutrientBasisQuantityTypeCode	Global/Local	T.P.Neutral		
nutrientFormatTypeCodeReference	Global/Local	T.P.Neutral		
nutrientTypeCode	Global/Local	T.P.Neutral		
nutritionalClaim	Global/Local	T.P.Neutral	Yes	Yes
nutritionalClaimNutrientElementCode	Global/Local	T.P.Neutral		
nutritionalClaimTypeCode	Global/Local	T.P.Neutral		
nutritionalLabelTypeCode	Global/Local	T.P.Neutral		
nutritionalProgramCode	Global/Local	T.P.Neutral		
offerOnPack	Local	T.P.Neutral		
onixPartNumber	Global/Local	T.P.Neutral	No	Yes
onixProductAvailabilityCode	Global/Local	T.P.Neutral		
openedTradeItemLifeSpan	Global	T.P.Neutral		
orderableReturnableConditionsCode	Global/Local	T.P.Neutral		
orderingLeadTime	Global/Local	T.P.Neutral & T.P.Dependent	No	Yes
orderingUnitOfMeasure	Global/Local	T.P.Neutral & T.P.Dependent		
orderQuantityMaximum	Global/Local	T.P.Neutral & T.P.Dependent		
orderQuantityMinimum	Global/Local	T.P.Neutral & T.P.Dependent		
orderQuantityMultiple	Global/Local	T.P.Neutral & T.P.Dependent		
orderSizingFactor	Global/Local	T.P.Neutral & T.P.Dependent	No	Yes

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
organicClaimAgencyCode	Global/Local	T.P.Neutral		
organicPercentClaim	Global/Local	T.P.Neutral		
organicProductPlaceOfFarmingCode	Global/Local	T.P.Neutral		
organicTradeItemCode	Global/Local	T.P.Neutral		
orientationPreferenceSequence	Global	T.P.Neutral		
orientationTypeCode	Global	T.P.Neutral		
originalLanguageCode	Global/Local	T.P.Neutral		
packagedProductWastagePercent	Global/Local	T.P.Neutral		
packagedUnpackagedShelfLifeRatio	Global/Local	T.P.Neutral		
packagingChainOfCustodyEventSequenceNumber	Global/Local	T.P.Neutral		
packagingChainOfCustodySourceCertifiedCode	Global/Local	T.P.Neutral		
packagingComponentDescription	Global/Local	T.P.Neutral	No	Yes
packagingCompositeMaterialDescription	Global/Local	T.P.Neutral	No	Yes
packagingConstituent	Global/Local	T.P.Neutral	No	Yes
packagingCubeUtilisationRatio	Global/Local	T.P.Neutral		
packagingDepth	Global/Local	T.P.Neutral	No	No
packagingFeatureCode	Global/Local	T.P.Neutral		
packagingFunctionCode	Global/Local	T.P.Neutral		
packagingGeneratedMaterialWaste	Global/Local	T.P.Neutral	No	No
packagingHeight	Global/Local	T.P.Neutral	No	No
packagingLevel	Global/Local	T.P.Neutral		
packagingLevelTypeCode	Global/Local	T.P.Neutral		
packagingMarkedDietAllergenCode	Local	T.P.Neutral		
packagingMarkedFreeFromCode	Local	T.P.Neutral		
packagingMarkedLabelAccreditationCode	Global/Local	T.P.Neutral		
packagingMarkedLanguageCode	Global/Local	T.P.Neutral		
packagingMarkedRecyclableScheme	Local	T.P.Neutral		
packagingMaterialAppliedProcessCode	Global/Local	T.P.Neutral		
packagingMaterialCoatingTypeDescription	Global/Local	T.P.Neutral	Yes	Yes
packagingMaterialCompositionQuantity	Global/Local	T.P.Neutral	No	Yes
packagingMaterialDescription	Global/Local	T.P.Neutral	No	Yes
packagingMaterialLaunchDateTime	Global/Local	T.P.Neutral		
packagingMaterialPerformanceCode	Global/Local	T.P.Neutral		
packagingMaterialThickness	Global/Local	T.P.Neutral	No	No
packagingMaterialTypeCode	Global/Local	T.P.Neutral		
packagingOwnerIdentification	Global/Local	T.P.Neutral		
packagingOwnerName	Global/Local	T.P.Neutral		
packagingRecoveryRate	Global/Local	T.P.Neutral		
packagingRecoveryRateDescription	Global/Local	T.P.Neutral	No	Yes
packagingRecoveryRateTypeCode	Global/Local	T.P.Neutral		
packagingRecycledContentDescription	Global/Local	T.P.Neutral	No	Yes
packagingRecycledContentRatio	Global/Local	T.P.Neutral		
packagingRecycledContentTypeCode	Global/Local	T.P.Neutral		
packagingRecyclingProcessTypeCode	Global/Local	T.P.Neutral		
packagingRecyclingSchemeCode	Global/Local	T.P.Neutral		
packagingRefundObligationName	Global/Local	T.P.Neutral		
packagingRefuseObligationName	Global/Local	T.P.Neutral		
packagingRenewableContentDescription	Global/Local	T.P.Neutral	No	Yes

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
packagingRenewableContentRatio	Global/Local	T.P.Neutral		
packagingRenewableContentTypeCode	Global/Local	T.P.Neutral		
packagingReusabilityStandardCode	Global/Local	T.P.Neutral		
packagingReusabilityStandardDescription	Global/Local	T.P.Neutral	No	Yes
packagingReuseRate	Global/Local	T.P.Neutral		
packagingShapeCode	Global/Local	T.P.Neutral		
packagingSustainabilityFeatureCode	Global/Local	T.P.Neutral		
packagingTermsAndConditionsCode	Global	T.P.Neutral		
packagingToTradeItemWeightRatio	Global/Local	T.P.Neutral		
packagingTypeCode	Global	T.P.Neutral		
packagingTypeDescription	Global	T.P.Neutral	No	Yes
packagingWeight	Global/Local	T.P.Neutral	No	No
packagingWeightPerConsumerUse	Global/Local	T.P.Neutral	No	No
packagingWeightReduction	Global/Local	T.P.Neutral	No	No
packagingWeightReductionProtocolName	Global/Local	T.P.Neutral	No	Yes
packagingWidth	Global/Local	T.P.Neutral	No	No
partyRole	Global/Local	T.P.Neutral		
paymentMethodCode	Global/Local	T.P.Neutral & T.P.Dependent		
paymentTermsTypeCode	Global/Local	T.P.Neutral & T.P.Dependent		
payPerViewWindow	Global/Local	T.P.Neutral		
pegHoleNumber	Global/Local	T.P.Neutral		
pegHoleTypeCode	Global/Local	T.P.Neutral		
pegHorizontal	Global/Local	T.P.Neutral	No	No
pegVertical	Global/Local	T.P.Neutral	No	No
percentageOfAlcoholByVolume	Global/Local	T.P.Neutral		
permitEndDateTime	Global/Local	T.P.Neutral		
permitStartDateTime	Global/Local	T.P.Neutral		
personName	Global/Local	T.P.Neutral		
personNameInverted	Global/Local	T.P.Neutral		
physicalFormDescription	Global	T.P.Neutral	No	No
physicalResourceTypeCode	Global/Local	T.P.Neutral		
physicalResourceUsage	Global/Local	T.P.Neutral	No	No
physicalResourceUsageAgencyCodeReference	Global/Local	T.P.Neutral		
physicalResourceUsageClassificationCodeReference	Global/Local	T.P.Neutral		
physicalResourceUsageMeasurementBasis	Global/Local	T.P.Neutral	No	No
physicalResourceUsageMeasurementTypeCode	Global/Local	T.P.Neutral		
physicalResourceUsageSubclassificationCodeReference	Global/Local	T.P.Neutral		
physicalStateCode	Global/Local	T.P.Neutral		
physiochemicalCharacteristicCode	Global/Local	T.P.Neutral		
physiochemicalCharacteristicValue	Global/Local	T.P.Neutral	No	Yes
pipeScheduleIdentification	Global/Local	T.P.Neutral		
platformTermsAndConditionsCode	Global/Local	T.P.Neutral		
platformTypeCode	Global/Local	T.P.Neutral		
plumbingControlTypeCode	Global/Local	T.P.Neutral		
plumbingHVACConnectionAgencyCode	Global/Local	T.P.Neutral		
plumbingHVACConnectionCode	Global/Local	T.P.Neutral		
plumbingHVACConnectionTypeCode	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
postConsumerRecycledContentPercentage	Global/Local	T.P.Neutral		
precautionaryStatementsCode	Global/Local	T.P.Neutral		
precautionaryStatementsDescription	Global/Local	T.P.Neutral	No	Yes
prefixToKey	Global/Local	T.P.Neutral		
preliminaryItemStatusCode	Global/Local	T.P.Neutral		
preparationConsumptionPrecautions	Global/Local	T.P.Neutral	No	Yes
preparationInstructions	Global/Local	T.P.Neutral	No	Yes
preparationStateCode	Global/Local	T.P.Neutral		
prescriptionTypeCode	Global/Local	T.P.Neutral		
preservationTechniqueCode	Global/Local	T.P.Neutral		
previousPackagingWeight	Global/Local	T.P.Neutral	No	No
priceBasisQuantity	Global/Local	T.P.Neutral	No	No
priceByMeasureTypeCode	Global/Local	T.P.Neutral & T.P.Dependent		
priceComparisonContentTypeCode	Global/Local	T.P.Neutral		
priceComparisonMeasurement	Global/Local	T.P.Neutral	No	Yes
priceEffectiveEndDate	Global/Local	T.P.Neutral		
priceEffectiveStartDate	Global/Local	T.P.Neutral		
productActivityRegionDescription	Global/Local	T.P.Neutral	Yes	Yes
productActivityRegionZoneCodeReference	Global/Local	T.P.Neutral		
productActivityTypeCode	Global/Local	T.P.Neutral		
productCharacteristicCode	Global/Local	T.P.Neutral		
productCharacteristicValueAmount	Global/Local	T.P.Neutral	No	Yes
productCharacteristicValueCode	Global/Local	T.P.Neutral		
productCharacteristicValueDateTime	Global/Local	T.P.Neutral		
productCharacteristicValueDescription	Global/Local	T.P.Neutral	No	Yes
productCharacteristicValueInteger	Global/Local	T.P.Neutral		
productCharacteristicValueMeasurement	Global/Local	T.P.Neutral	No	Yes
productCharacteristicValueNumeric	Global/Local	T.P.Neutral		
productCharacteristicValueString	Global/Local	T.P.Neutral		
productionVariantDescription	Global/Local	T.P.Neutral	No	No
productionVariantEffectiveDateTime	Global/Local	T.P.Neutral		
productRange	Global	T.P.Neutral		
productYield	Global/Local	T.P.Neutral	No	No
productYieldTypeCode	Global/Local	T.P.Neutral		
productYieldVariationPercentage	Global/Local	T.P.Neutral		
professionalAffiliation	Global/Local	T.P.Neutral		
prohibitedForTransportationReason	Global/Local	T.P.Neutral	Yes	Yes
promotionTypeCode	Global/Local	T.P.Neutral		
proofOfOptimizedPackagingWeightStandardCode	Global/Local	T.P.Neutral		
proofOfOptimizedPackagingWeightStandardDescription	Global/Local	T.P.Neutral	No	Yes
propertyAmount	Global	T.P.Neutral	No	No
propertyCode	Global	T.P.Neutral		
propertyDateTime	Global	T.P.Neutral		
propertyDescription	Global	T.P.Neutral	No	No
propertyFloat	Global	T.P.Neutral		
propertyInteger	Global	T.P.Neutral		
propertyMeasurement	Global	T.P.Neutral	No	No

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
propertyString	Global	T.P.Neutral		
protectiveEquipment	Global/Local	T.P.Neutral	No	Yes
protectiveEquipmentAdditionalDescription	Global/Local	T.P.Neutral	No	Yes
protectiveEquipmentBodyAreaCode	Global/Local	T.P.Neutral		
protectiveEquipmentStatusCode	Global/Local	T.P.Neutral		
provenanceStatement	Global/Local	T.P.Neutral	Yes	Yes
proximoCutOffDay	Global/Local	T.P.Neutral & T.P.Dependent		
psychotropicSubstance	Global/Local	T.P.Neutral		
publicationDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
publicationDateTypeCode	Global/Local	T.P.Neutral		
publicationDescriptionTypeCode	Global/Local	T.P.Neutral		
publicationLocation	Global/Local	T.P.Neutral & T.P.Dependent		
publisherName	Global/Local	T.P.Neutral		
publishingRoleCode	Global/Local	T.P.Neutral		
publishingStatusCode	Global/Local	T.P.Neutral		
quantityContained	Global/Local	T.P.Neutral	No	Yes
quantityOfBatteriesBuiltIn	Global/Local	T.P.Neutral		
quantityOfBatteriesRequired	Global/Local	T.P.Neutral		
quantityOfChildren	Global	T.P.Neutral		
quantityOfCompleteLayersContainedInATradeItem	Global	T.P.Neutral		
quantityOfFunctionalBasisUnit	Global/Local	T.P.Neutral	No	No
quantityOfInnerPack	Global	T.P.Neutral		
quantityOfLayersPerPallet	Global/Local	T.P.Neutral		
quantityOfNextLevelTradeItemWithinInnerPack	Global	T.P.Neutral		
quantityOfNextLowerLevelTradeItem	Global	T.P.Neutral		
quantityOfTradeItemsContainedInACompleteLayer	Global	T.P.Neutral		
quantityOfTradeItemsPerPallet	Global/Local	T.P.Neutral		
quantityOfTradeItemsPerPalletLayer	Global/Local	T.P.Neutral		
rankBelowSpecies	Global	T.P.Neutral		
ratingContentDescriptorCode	Global/Local	T.P.Neutral		
rawMaterialIrradiatedCode	Global/Local	T.P.Neutral		
rawMaterialUsedInPreparationWeight	Global/Local	T.P.Neutral	No	No
rEACHChemicalProductUseDescriptorCode	Local	T.P.Neutral		
reachChemicalRegistrationNumber	Local	T.P.Neutral		
rEACHEnvironmentReleaseUseCategoryCode	Local	T.P.Neutral		
rEACHProcessUseDescriptorCode	Local	T.P.Neutral		
rEACHSectorUseDescriptorCode	Local	T.P.Neutral		
recommendedConsumerPickupAreaCode	Global/Local	T.P.Neutral		
recommendedFrequencyOfFeeding	Global/Local	T.P.Neutral	No	Yes
recommendedUsageLocation	Global/Local	T.P.Neutral	No	Yes
referencedFileTypeCode	Global/Local	T.P.Neutral		
referencedTradeItemTypeCode	Global/Local	T.P.Neutral & T.P.Dependent		
registrationAgency	Global/Local	T.P.Neutral		
registrationEndDateTime	Global/Local	T.P.Neutral		
registrationNumber	Global/Local	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
regulatedChemicalDescription	Global/Local	T.P.Neutral	No	Yes
regulatedChemicalIdentifierCodeReference	Global/Local	T.P.Neutral		
regulatedChemicalName	Global/Local	T.P.Neutral		
regulatedChemicalSunsetDateTime	Global/Local	T.P.Neutral		
regulatedProductName	Global/Local	T.P.Neutral	Yes	Yes
regulationTypeCode	Global/Local	T.P.Neutral		
regulatoryAct	Global/Local	T.P.Neutral		
regulatoryAgency	Global/Local	T.P.Neutral		
regulatoryPermitIdentification	Global/Local	T.P.Neutral		
relevantSupportingSubstanceHazardousDocumentation	Global/Local	T.P.Neutral	No	Yes
remoteControlTypeCode	Global/Local	T.P.Neutral		
renewablePlantBasedPlasticComponentsPercent	Global	T.P.Neutral		
rennetTypeCode	Global/Local	T.P.Neutral		
reportableQuantityTechnicalName	Global/Local	T.P.Neutral		
requiredHardwarePerformance	Global/Local	T.P.Neutral	No	No
requiredStorageCapacity	Global/Local	T.P.Neutral	No	No
requiredSystemMemoryCapacity	Global/Local	T.P.Neutral	No	No
requiredVideoMemoryCapacity	Global/Local	T.P.Neutral	No	No
resolutionTypeCode	Global/Local	T.P.Neutral		
restOfWorldSalesRightsType	Global/Local	T.P.Neutral		
restrictionDescription	Global/Local	T.P.Neutral	No	Yes
returnableAssetCapacityContent	Global/Local	T.P.Neutral	No	Yes
returnableAssetOwnerId	Global/Local	T.P.Neutral		
returnableAssetOwnerName	Global/Local	T.P.Neutral		
returnableAssetsContainedQuantity	Global/Local	T.P.Neutral	No	Yes
returnablePackageDepositAmount	Global/Local	T.P.Neutral	No	No
returnablePackageDepositIdentification	Global/Local	T.P.Neutral		
returnablePackageDepositRegion	Global/Local	T.P.Neutral		
returnGoodsPolicyCode	Global/Local	T.P.Neutral & T.P.Dependent		
reuseInstructions	Global/Local	T.P.Neutral	No	No
ripeningTimePeriod	Global/Local	T.P.Neutral	No	No
riskPhraseCode	Global/Local	T.P.Neutral		
rOHSComplianceFailureMaterial	Local	T.P.Neutral		
routeOfAdministration	Global/Local	T.P.Neutral		
routeOfExposureCode	Global/Local	T.P.Neutral		
runModeCode	Global	T.P.Neutral		
runTimeMinutes	Global/Local	T.P.Neutral		
safetyPhraseCode	Global/Local	T.P.Neutral		
salesRightsTypeCode	Global/Local	T.P.Neutral		
salesTerritory	Global/Local	T.P.Neutral		
screenRefreshRate	Global/Local	T.P.Neutral		
sDSsheetNumber	Global	T.P.Neutral		
sDSstandardCode	Global/Local	T.P.Neutral		
sDSstandardVersion	Global/Local	T.P.Neutral		
seasonalAvailabilityEndDateTime	Local	T.P.Neutral		
seasonalAvailabilityStartDateTime	Local	T.P.Neutral		
seasonCalendarYear	Local	T.P.Neutral		
seasonName	Local	T.P.Neutral	Yes	Yes

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
seasonParameterCode	Local	T.P.Neutral		
securityTagLocationCode	Local	T.P.Neutral		
securityTagTypeCode	Local	T.P.Neutral		
sellingUnitOfMeasure	Global/Local	T.P.Neutral		
sequenceNumber	Local	T.P.Neutral		
serialNumberLocationCode	Global	T.P.Neutral		
servingSize	Global/Local	T.P.Neutral	No	No
servingSizeDescription	Global/Local	T.P.Neutral	No	Yes
servingSuggestion	Global/Local	T.P.Neutral	No	Yes
sheetName	Global/Local	T.P.Neutral		
shippingContainerQuantityDescription	Global/Local	T.P.Neutral	Yes	Yes
shippingQuantityMinimum	Global/Local	T.P.Neutral & T.P.Dependent		
shippingRegulationException	Global/Local	T.P.Neutral	No	Yes
shortSynopsis	Global/Local	T.P.Neutral	No	No
signalProcessingTypeCode	Global/Local	T.P.Neutral		
sizeCode	Global	T.P.Neutral		
sizeDimension	Global	T.P.Neutral	No	No
sizeGroupCode	Global	T.P.Neutral		
sizeSystemCode	Global	T.P.Neutral		
sizeTermDescription	Global/Local	T.P.Neutral	No	Yes
sizeTypeCode	Global	T.P.Neutral		
sleeveType	Global/Local	T.P.Neutral	No	No
softwareCategoryTypeDescription	Global/Local	T.P.Neutral	Yes	Yes
sourceAnimalCode	Global/Local	T.P.Neutral		
sourceCertificationSystemProtocolCode	Global/Local	T.P.Neutral		
sourceCertificationSystemProtocolDescription	Global/Local	T.P.Neutral	No	Yes
sourceName	Global/Local	T.P.Neutral		
specialFeatures	Global/Local	T.P.Neutral	Yes	Yes
specialItemCode	Global/Local	T.P.Neutral		
specialPermitOrExemptionIdentification	Global/Local	T.P.Neutral		
specialRequirementsDescription	Global/Local	T.P.Neutral	No	Yes
species	Global	T.P.Neutral		
specificGravity	Global	T.P.Neutral		
specificGravityReferenceMaterialCode	Global	T.P.Neutral		
stackingFactor	Global	T.P.Neutral		
stackingFactorTypeCode	Global	T.P.Neutral		
stackingWeightMaximum	Global/Local	T.P.Neutral	No	No
standardTypeHangerAgencyCode	Global/Local	T.P.Neutral		
startAvailabilityDateTime	Global/Local	T.P.Neutral & T.P.Dependent		
startDateMaximumBuyingQuantity	Global/Local	T.P.Neutral & T.P.Dependent		
startDateMinimumBuyingQuantity	Global/Local	T.P.Neutral & T.P.Dependent		
staticContrastRatio	Global/Local	T.P.Neutral		
statisticalReportingMeasurement	Global/Local	T.P.Neutral	No	No
storageCompatibilityAgency	Global/Local	T.P.Neutral		
storageCompatibilityCode	Global/Local	T.P.Neutral		
storageCompatibilityDescription	Global/Local	T.P.Neutral	No	Yes

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
storageRequirementsDescription	Global/Local	T.P.Neutral	No	Yes
studioName	Global/Local	T.P.Neutral		
styleDescription	Global/Local	T.P.Neutral	No	No
subBrand	Global	T.P.Neutral		
subjectCode	Global/Local	T.P.Neutral		
subjectHeadingText	Global/Local	T.P.Neutral		
subjectSchemeIdentifierCode	Global/Local	T.P.Neutral		
subjectSchemeName	Global/Local	T.P.Neutral		
subjectSchemeVersion	Global/Local	T.P.Neutral		
subTitle	Global/Local	T.P.Neutral		
subtitledLanguageCode	Global/Local	T.P.Neutral		
suffixToKey	Global/Local	T.P.Neutral		
suggestedConsumerPack	Global/Local	T.P.Neutral		
suggestedRetailPrice	Global/Local	T.P.Neutral	No	No
supplierSpecifiedMinimumConsumerStorageDays	Global/Local	T.P.Neutral		
supportedHDMIFeatureCode	Global/Local	T.P.Neutral		
surfaceOfCheeseAtEndOfRipeningCode	Global/Local	T.P.Neutral		
surroundSoundDigitalDecoderTypeCode	Global/Local	T.P.Neutral		
systemRequirementsQualifierCode	Global/Local	T.P.Neutral		
targetAudience	Global/Local	T.P.Neutral	No	No
targetConsumerAge	Local	T.P.Neutral	No	No
targetConsumerAgeGroup	Global/Local	T.P.Neutral	Yes	Yes
targetConsumerGender	Local	T.P.Neutral		
targetMarketCountryCode	Global	T.P.Neutral		
targetMarketSubdivisionCode	Global	T.P.Neutral		
targetOccasionOrTheme	Global/Local	T.P.Neutral	Yes	Yes
technicalChemicalName	Global/Local	T.P.Neutral		
televisionInformationServiceTypeCode	Global/Local	T.P.Neutral		
televisionTextMemoryPageQuantity	Global/Local	T.P.Neutral		
temperatureTypeQualifierCode	Global/Local	T.P.Neutral		
testCriteriaDescription	Global/Local	T.P.Neutral	No	Yes
testSpeciesCode	Global/Local	T.P.Neutral		
testSpeciesDescription	Global/Local	T.P.Neutral	No	Yes
textAuthor	Global/Local	T.P.Neutral		
threadTypeCode	Global/Local	T.P.Neutral		
titleElementLevel	Global/Local	T.P.Neutral		
titlePrefixType	Global/Local	T.P.Neutral		
titleRatingCodeReference	Global/Local	T.P.Neutral		
titlesAfterNames	Global/Local	T.P.Neutral		
titlesBeforeNames	Global/Local	T.P.Neutral		
titleText	Global/Local	T.P.Neutral		
titleTypeCode	Global/Local	T.P.Neutral		
titleWithoutPrefix	Global/Local	T.P.Neutral		
toLanguage	Global/Local	T.P.Neutral		
totalAudioPowerOutput	Global/Local	T.P.Neutral	No	No
totalNumberOfComponents	Global/Local	T.P.Neutral		
totalPackagingEconomicCostAmount	Global/Local	T.P.Neutral	No	Yes
totalPackagingEconomicCostAmountBasis	Global/Local	T.P.Neutral	No	No

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
totalPackagingEconomicCostMeasurementCode	Global/Local	T.P.Neutral		
totalPackagingEconomicCostMeasurementDescription	Global/Local	T.P.Neutral	No	Yes
totalPackagingRecoveryRate	Global/Local	T.P.Neutral		
totalQuantityOfNextLowerLevelTradeItem	Global	T.P.Neutral		
totalRecyclableContentPercentage	Global/Local	T.P.Neutral		
totalScreenArea	Global/Local	T.P.Neutral	No	Yes
toxicityMeasurement	Global/Local	T.P.Neutral	No	No
toxicityMeasurementProtocolCode	Global/Local	T.P.Neutral		
toxicityMeasurementProtocolDescription	Global/Local	T.P.Neutral	No	Yes
toxicityReferenceSubstanceCode	Global/Local	T.P.Neutral		
toxicityReferenceSubstanceDescription	Global/Local	T.P.Neutral	No	Yes
toxicologicalInformationDescription	Global/Local	T.P.Neutral	No	Yes
trackNumber	Global/Local	T.P.Neutral		
trackTime	Global/Local	T.P.Neutral		
trackTitle	Global/Local	T.P.Neutral	No	No
tradeItemCompositionDepth	Global	T.P.Neutral	No	No
tradeItemCompositionWidth	Global	T.P.Neutral	No	No
tradeItemConditionCode	Global/Local	T.P.Neutral		
tradeItemDateOnPackagingFormatName	Global/Local	T.P.Neutral		
tradeItemDateOnPackagingFormatTypeCode	Global/Local	T.P.Neutral		
tradeItemDateOnPackagingLocation	Global/Local	T.P.Neutral		
tradeItemDateOnPackagingTypeCode	Global/Local	T.P.Neutral		
tradeItemDescription	Global	T.P.Neutral	Yes	Yes
tradeItemFeatureBenefit	Global	T.P.Neutral	Yes	Yes
tradeItemFeatureCodeReference	Global	T.P.Neutral		
tradeItemFinishDescription	Global	T.P.Neutral	No	No
tradeItemFormDescription	Global	T.P.Neutral	Yes	No
tradeItemGroupIdentificationCodeReference	Global	T.P.Neutral		
tradeItemIncludedAccessories	Global/Local	T.P.Neutral	No	No
tradeItemLicenseCharacter	Global/Local	T.P.Neutral	Yes	Yes
tradeItemLicenseEndDateTime	Global/Local	T.P.Neutral		
tradeItemLicenseOwnerGLN	Global/Local	T.P.Neutral		
tradeItemLicenseOwnerName	Global/Local	T.P.Neutral		
tradeItemLicenseRegion	Global/Local	T.P.Neutral		
tradeItemLicenseStartDateTime	Global/Local	T.P.Neutral		
tradeItemLicenseTitle	Global/Local	T.P.Neutral	No	Yes
tradeItemMaterialDesignationDescription	Global/Local	T.P.Neutral	No	Yes
tradeItemMarketingMessage	Global/Local	T.P.Neutral	No	No
tradeItemOperatingEnvironment	Global/Local	T.P.Neutral		
tradeItemPrice	Global/Local	T.P.Neutral & T.P.Dependent	No	No
tradeItemPriceTypeCode	Global/Local	T.P.Neutral & T.P.Dependent		
tradeItemSustainabilityFeatureCode	Global/Local	T.P.Neutral		
tradeItemTemperatureConditionTypeCode	Global/Local	T.P.Neutral		
tradeItemTradeChannelCode	Global/Local	T.P.Neutral & T.P.Dependent		
tradeItemUnitDescriptorCode	Global	T.P.Neutral		
tradeItemVariantTypeCode	Global	T.P.Neutral		

Attribute Name	Target Market Applicability	Trading Partner Neutral status	Multiple Values (Grey = N/A)	Multi Language / Measurement / Currency
tradeItemVariantValue	Global	T.P.Neutral		
transportationMaximumQuantity	Global/Local	T.P.Neutral	No	No
transportationModeCode	Global/Local	T.P.Neutral		
transportationModeRegulatoryAgency	Global/Local	T.P.Neutral		
tunerTypeCode	Global/Local	T.P.Neutral		
uniformResourceIdentifier	Global/Local	T.P.Neutral		
unitedNationsDangerousGoodsNumber	Global	T.P.Neutral		
unitsPerTradeItem	Global/Local	T.P.Neutral	No	Yes
unnamedPersons	Global/Local	T.P.Neutral		
upperExplosiveLimit	Global	T.P.Neutral		
usableProductVolume	Global	T.P.Neutral	No	No
variableTradeItemTypeCode	Global/Local	T.P.Neutral		
variableWeightAllowableDeviationPercentage	Global/Local	T.P.Neutral		
variableWeightRangeMaximum	Global/Local	T.P.Neutral	No	No
variableWeightRangeMinimum	Global/Local	T.P.Neutral	No	No
variantDescription	Global	T.P.Neutral	Yes	Yes
verticalViewingAngle	Global/Local	T.P.Neutral		
verticalCameraAngleCode	Global/Local	T.P.Neutral		
vESAWallMountTypeCode	Global/Local	T.P.Neutral		
vintner	Global	T.P.Neutral		
visualMediaColourCode	Global/Local	T.P.Neutral		
volatileOrganicCompound	Global	T.P.Neutral	No	No
volatileOrganicCompoundBasis	Global	T.P.Neutral	No	No
volatileOrganicCompoundPercent	Global	T.P.Neutral		
warningCopyDescription	Global/Local	T.P.Neutral	Yes	Yes
warrantyConstraint	Global/Local	T.P.Neutral		
warrantyDescription	Global/Local	T.P.Neutral	No	Yes
warrantyDuration	Global/Local	T.P.Neutral	No	No
warrantyEffectiveDateType	Global/Local	T.P.Neutral		
warrantyType	Global/Local	T.P.Neutral		
wasteAmount	Global/Local	T.P.Neutral	Yes	Yes
wasteDirectiveApplianceType	Global/Local	T.P.Neutral		
wasteDirectiveName	Global/Local	T.P.Neutral		
wasteDirectiveRegistrationNumber	Global/Local	T.P.Neutral		
waterHazardCode	Global/Local	T.P.Neutral		
waterSolubilityTypeCode	Global/Local	T.P.Neutral		
width	Global/Local	T.P.Neutral	No	No
workingPressureRatingClassCode	Global/Local	T.P.Neutral		
workingPressureRatingMaximum	Global/Local	T.P.Neutral	No	Yes
workingPressureRatingMinimum	Global/Local	T.P.Neutral	No	Yes
yearOfAnnual	Global/Local	T.P.Neutral		
yearOfProduction	Global/Local	T.P.Neutral		

7.2 Measurement Rules (Music and Film Publishing Industries)

CubiScan[®] 30

The music and film publishing industries have a long history of utilizing a specific measurement orientation for CDs and DVDs. The method of measurement and orientation of these trade items has been incorporated into a measurement tool manufactured by Quantronix, Inc. The tool is called CubiScan[®] 30. This tool has emerged as a standard for these industries and is consistent with the National Association of Recording Merchandisers (NARM) method of measurement.

In this measurement system, the dimensional measurements of CDs and DVDs are derived as follows:

The trade item is laid flat in the upper left corner of the CubiScan[®] 30, with the spine along the left edge of the CubiScan[®] 30, and the front of the CD or DVD facing up.

NARM Height = Thickness

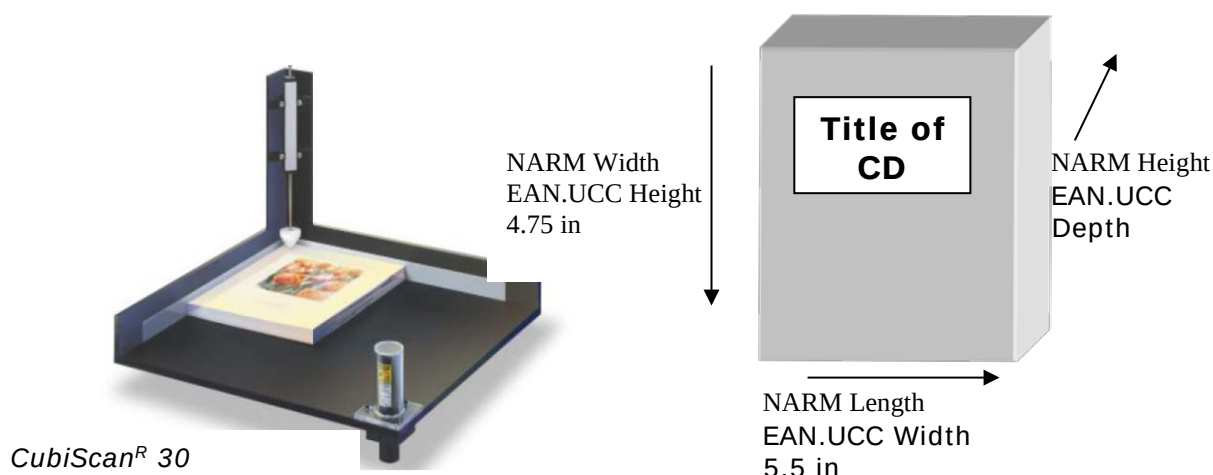
NARM Length = Bottom left to bottom right

NARM Width = Top left to bottom left

The information providers are expected to populate the appropriate EAN.UCC dimensional attributes per the chart below. Standard measurements for CDs and DVDs:

CubiScan [®] 30	GS1	CD	DVD
NARM Height	Depth	.25 in	.375 in
NARM Width	Height	4.75 in	5.375 in
NARM Length	Width	5.50 in	7.000 in

The illustrations below show how the product is oriented and measured:



Peg Hole Measurements

Please use the following method for populating peg hole information for those trade items for which the packaging has more than one peg hole (this example is for a package with two peg holes):

Attribute	Value
Peg Hole Number	1
Peg Horizontal and UOM	1 in
Peg Vertical and UOM	2 in
Peg Hole Number	2
Peg Horizontal and UOM	4 in
Peg Vertical and UOM	2 in

Horizontal measurement is from left edge to the centre of the hole

Vertical measurement is from the top to the centre of the hole

Note: While the GS1 standard was revised to identify that a package may have more than one peg hole, at this time it incorrectly prohibits multiple iterations of these attributes. A request has been submitted to Align Data to consider an errata revision to correct this in the published standard.

7.3 GTIN Allocation Rules for Ingredient and Allergen Information

Breaking down ingredient information and allergy statements

Not all suppliers are currently able to break down the ingredient declaration or the allergy statement. That is why ingredients can also be specified in the 'ingredientStatement' attribute and allergen statement in the 'allergenStatement' attribute.

The ingredient (and allergen) split however is needed:

To enable structured searches

To enable specification of related information per ingredient, such as the content percentage and country of origin.

Production variant, GTIN allocation rules and minor ingredient changes

The GTIN Allocation rules state (<http://www.gs1.org/gtinrules/>) that:

The following changes warrant the allocation of a new GTIN:

1. Formulation change where the consumer is expected to distinguish the new from the old product and order accordingly.

2. Where regulations or other requirements dictate the ability to distinguish the old formulation from the new, e.g. healthcare
3. Where the changes alter the fundamental consumer benefit, e.g. new flavour, aroma, etc
4. Changes that result in a different description (declaration to the consumer)

The following changes do not warrant the allocation of a new GTIN:

5. Minor formulation or characteristic changes that will replace the existing trade item and does not involve any change in the declaration to the consumer (e.g. is not covered by legislation). Examples include: changes for cost reduction reasons without changing the trade item characteristics (e.g. taste, viscosity, minor ingredients change, etc.); changes to the button colour used on fashion items, etc
6. Changes to ingredients as a result of seasonal variations, e.g. yoghurt with seasonal fruit, where the actual fruits within are dependent on the season

The theory of changing a GTIN for every change in product formulation is sound and logical. However it must be remembered that changing a GTIN also requires a change to packaging with subsequent design/packaging and write off consequences. Many formulation changes might not actually require a change to packaging design other than to change the barcode. For instance one might change the technical specification of an ingredient such that the product might now exceed or fail a current allergen claim. This would require a change to a products declaration through GDS but not to packaging. A manufacturer will need to decide whether such a change warrants a change to GTIN with its subsequent costs.

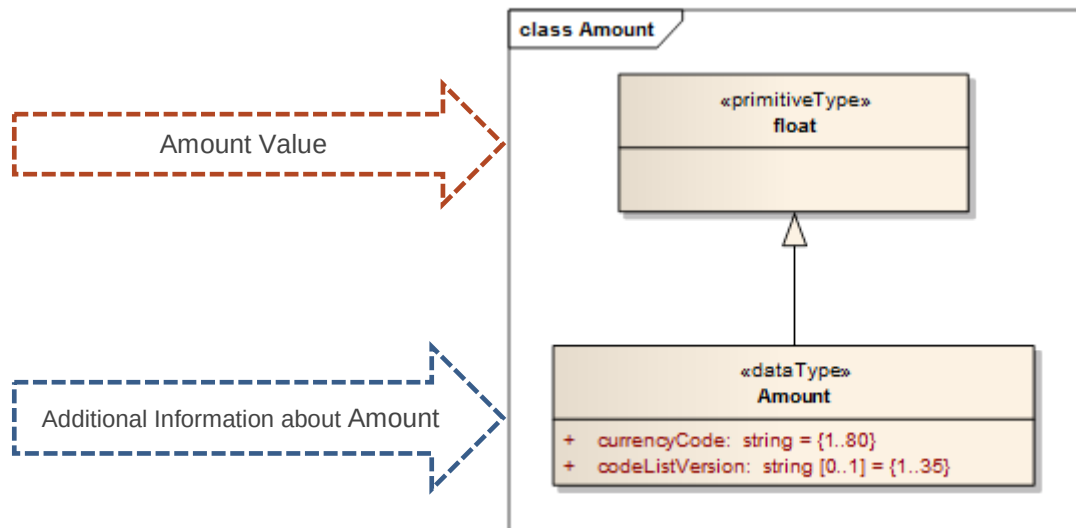
The buyer of a particular product will also need to be able to manage changes of GTINs through their systems carefully. Buyers (in a GDS sense) rightly or wrongly do not like changes to GTINS and tend to treat them all as new listings with subsequent costs and the hassles of introducing the product and changing many systems to accommodate.

The best practice is to use the best before date of a product to distinguish between different variants of the same product. If manufacturers get calls from consumers about allergens etc and manufacturers know that they have multiple variants then they have to ask the consumer to tell the best before date on the consumer unit as well as the GTIN.

8 Appendices

8.1 Understanding Data Type Class Diagrams

To reduce nesting in XML Schemas, all code and compound data types (e.g. description, measurement, amount) in 3.x are designed to inherit the value for the data type (e.g. Amount Value, Description Text). In other words, the class diagrams do not specifically identify the value as a distinct attribute as before.



In XML representation, an amount would look like this:

```
<dutyFeeTaxBasisAmount currencyCode="EUR">500</dutyFeeTaxBasisAmount>
```

In the example, 500 represents the value for the dutyFeeTaxBasisAmount.

9 Summary of Changes

Change	BMS Doc Version	Associated CR Number
- Changed discountDescription to 0..* - Changed tradeItemFormDescription to 0..* - Changed surroundSoundDigitalDecoderTypeCode to 0..* - Removed ReturnableAsset and PackageDepositClasses from PlatformInformation Module based on user comment. - Changed data type PhysicalStateCode to PhaseOfMatterCode. Replaced ChemicalPhysicalStateCode with PhaseOfMatterCode. Added PhaseOfMatterCode to common. - Changed DangerousSubstancePhaseOfMatterCode with PhaseOfMatterCode in common. - Changed data type of CombFilterTechnologyTypeCode from code to CombFilterTechnologyTypeCode. - Changed name of class Flashpoint to FlashPoint - Fixed typos and redundant class diagrams. - Deleted TemperatureTypeCode and added TemperatureQualifierCode to GDSN Common. - Added OrientationTypeCode - Moved TradeItemDimensions to GDSN Common. - Changed WarrantyEffectiveDateTypeCode and WarrantyTypeCode to data types of string. Changed names to WarrantyEffectiveDateType and WarrantyType. - Added in Code Lists for TestSpeciesCode, HealthcareTradeItemReusabilityTypeCode, MRICompatibilityCode and SterilisationTypeCode. - Removed ItemAuthorisationStatusCode from Common. Moved to Item Authorisation BMS. - Moved SustainabilityFeatureCode to GDSN Common. - Added code list for WaterSolubilityTypeCode. - Changed class name of TargetMarketCommunicationchannel to TargetMarketCommunicationChannel - Updated definition in GDD Report for gradeCode. - Fixed typo in ConfirmationStatusReasonCode in GDSN Common - Changed yearOfProduction data type to gYear. - Changed HealthCareTradeItemReusabilityInformation to HealthcareTradeItemReusabilityInformation (20-11-12) - Changed datatype for seasonName to Description70. (20-11-12) - Changed isTradeItemShippedInMultipleContainers to 0..1 (20-11-12) - Changed WarrantyEffectiveDateTypeCode and WarrantyTypeCode to 0..1 (20-11-12) - Changed flammableGasContainmentCode to flammableAerosolContainmentCode. (26-11-12)	1.0.0	

- Corrected spelling error in sDSheetNumber attribute. (26-11-12) - Changed data type of materialThreadCount to Description70 (29-11-12).		
- Corrected spelling error on HOSPITAL_PRESCRIPTION_REQUIRED_FOR_FIRST_PRESCRIPTION - Deleted redundant FlammableAerosolContainmentCode code list. - Corrected definition for CALORIES_PER_PORTION. - Moved netMassOfExplosives from HazardousInformationHeader to HazardousInformationDetail. - Changed association from TransportationClassification to RegulatedTransportationMode from 1..* to 0..* - Moved ReturnableAssetOwnerName and ReturnableAssetOwnerID from ReturnableAsset to Packaging. Changed names to reflect parent class.	1.0.2	
- Trade Item Lifespan: Moved doesTradeItemHaveAutoReaderTracker into Trade Item Lifespan class - Trade Item Lifespan: Added AVP - AdditionalTradeItemClassification: Changed name of attribute to additionalTradeItemClassificationSystemCode. - AdditionalTradeItemClassification: Changed cardinality of additionalTradeItemClassificationCode to 0..1 - AdditionalTradeItemClassification: Added Class AdditionTradeItemClassificationValue - AdditionalTradeItemClassification: Changed attribute data type to AdditionalTradeItemClassificationCodeListCode - AlcoholicBeverageInformationModule: Changed name to Alcohol Information Module - AlcoholInformationModule: Added AVP - AlcoholInformationModule: Changed DegreeOfOriginalWort to Decimal - AlcoholInformationModule: Changed percentageOfAlcoholByVolume to Decimal - Apparel Information: Made association from Apparel Information Module 0..1 - Apparel Information: Added AVP to Module Class - ApplicableAllowanceCharge: Changed allowanceChargeType to allowanceChargeTypeCode - ApplicableAllowanceCharge: AllowanceChargePercent changed to decimal - applicationIdentifierTypeCode: Made repeating - Audience OR Player Information: Changed association from Module Class to AudienceOrPlayerInformation to 0..1 - Audience OR Player Information: Added AVP. - AudioVisualMediaContentInformation: Made association from Module class optional (0..*) - AudioVisualMediaContentInformation: Added AVP	1.0.3	

• AudioVisualMediaContentInformation Added isDigitalDownloadAvailable from AudiovisualMediaProductDescription. • AudioVisualMediaProductionInformationModule: Made Association to AudioVisualMediaProductionInformation 0..1 • AudioVisualMediaProductionInformationModule:Added AVP • AudioVisualMediaProductDescription: removed isDigitalDownloadAvailable • AvailableDiscount :Changed discountPercent to decimal • AwardPrizeModule:Added Avp • AwardPrizeModule:Made association to Award Prize 0..* • Battery Details: Added AVP • Battery Information Module: Added AVP • CatalogueItem: Moved Sequence of CatalogueItemChildLink to end • CatalogueItemState: Changed CatalogueItemState to CatalogueItemStateCode • Certification: Moved order of certification value to first in attribute sequence • CertificationInformation and Certification Classes: Added AVP . • ChemicalRegulationInformationModule:Made association to ChemicalRegulationInformation 0..1 • Common: Added TradeItemContextCode • Common: Added Country to GDSN Common • ComponentInformation: Made componentDescription repeating • ComponentInformation: Changed context data type to TradeItemContextCode' • ConsumerInstructionsModule: Created new ConsumerInstructionsModule • ControlledSubstanceInformation: Added AVP • ControlledSubstanceModule: Added AVP • CopyrightInformation: Added AVP • CopyrightInformation:Changed copyrightRate to decimal • CopyrightInformationModule: Made association to CopyrightInformation Optional • DairyFishMeatPoultryItemInformation: Made fatInMilkContent Decimal to ease implementation • DairyFishMeatPoultryItemModule: Made Association To DairyFishMeatPoultryInformation Optional • DangerousGoodsHazardLabel: Changed Name to DangerousHazard Label, updated attribute names to reflect Class • DangerousGoodsHazardLabel:Moved Class to Common • DangerousSubstancesInformation: Added AVP • DangerousSubstancesProperties: Added AVP		
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• DangerousSubstancesProperties: Changed flammableSubstanceMaxPercent to decimal • DangerousSubstancesProperties: Changed flammableSubstanceMinPercent to decimal • Data Carrier: Created GS1TradeIdentificationKey Class • DeliveryPurchasingInformationModule: Added Avp • DeliveryPurchasingInformationModule: Made association to DeliveryPurchasingInformation 0..1 • DietInformation: Added AVP • DietInformationModule: Made association to DietInformation optional (0..1) • DistributionDetails: orderingLeadTime made optional • DistributionMediaContentInformation: Added Avp • DurableGoodsCharacteristics: Added AVP • DurableGoodsCharacteristicsModule: Made association to DurableGoodsCharacteristics Optional (0..1) • DutyFeeTax: changed data type for avpList to GS1_AttributeValuePairList • DutyFeeTax: Changed data type for dutyFeeTaxRate to decimal from float • DutyFeeTaxInformation: changed data type for avpList to GS1_AttributeValuePairList • ElectronicDeviceCharacteristicsInformationModule: Added AVP • ExternalCodeValueInformation: Made externalAgencyName optional. • FarmingProcessing: Deleted TradeItemConditionCode • FarmingProcessingInformation: Changed Name to FarmingAndProcessingInformation • FarmingAndProcessingInformation: Moved to GDSN Common • FarmingProcessingInformation: Added sourceAnimalCode from ingredient class (changed name) • FarmingAndProcessingInformation: Added irradiatedCode from ingredient class (changed name) • FarmingAndProcessingInformation: Moved preservationTechniqueCode to GDSN Common • FarmingAndProcessingInformation: Moved maturationMethodCode to GDSN Common (changed name) • FarmingAndProcessingInformation: Moved growingMethodCode to GDSN Common • FarmingProcessingInformationModule: Added AVP • FishMeatPoultryContent: Changed fishMeatPoultryContentCode to fishMeatPoultryContentCodeReference • FoodAndBeverageIngredient: ingredientContentPercentage into a float • FoodandBeverageIngredient: Made IngredientSequence 0..1 • FoodandBeverageIngredient: Made IngredientName 0..1		
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• FoodAndBeverageIngredient: Added Association to PlaceOfProductActivity • FoodAndBeverageIngredient:Added Association to organicInformation • FoodAndBeverageIngredient: Named Association to PartyInRole • FoodAndBeverageIngredient: Added Association to FarmingAndProcessingInformation • FoodAndBeverageIngredient: Deleted SourceAnimalCode • FoodAndBeverageIngredient: Deleted ingredientIrradiatedCode • FoodAndBeverageIngredient:Deleted Catchzone • FoodAndBeverageIngredient:Deleted ingredientCountryOfOrigin • FoodAndBeverageIngredient: Deleted ingredientGrowingMethodCode • FoodAndBeverageIngredient: Deleted ingredientCountryOfOriginCode • FoodAndBeverageIngredient: Deleted ingredientGeneticallyModifiedDeclarationCode • FoodAndBeverageIngredient: Moved rawMaterialUsedInPreparationWeight to FarmingAndProcessingInformation Module • FoodandBeverageIngredientModule:Changed JuiceContentPercentage to a float. • FoodAndBeveragePreparationServingModule: Added Avp • FoodAndBeveragePropertiesInformationModule:Added Avp • GDSNTradeItemClassification: Added new classes (AdditionalTradeItemClassification and AdditionalTradeItemClassificationValue). • GDSN Common: Added new Code Data Type for AdditionalTradeItemClassificationCodeListCode. • GDSN Common: Added Display Type Code • GDSN Common: Moved organicProductPlaceOfFarmingCode to GDSN Common • GDSN Common: Moved OrganicClaimAgencyCode to GDSN Common • GDSN Common: Moved organicTradeItemCode to GDSN Common • GHSDetail: Added code data types for GHSSignalWordsCode and GHSSymbolDescriptionCode. • GS1TradeIdentificationKey: Added isBarCodeDerivable to GS1TradeItemIdentificationKeyClass (Moved from DataCarrier). • GS1TradeIdentificationKey: Moved isBarCodeOnPackageVariableMeasureBarCode from Packaging Marking to GS1TradeItemIdentificationKey • HazardousInformationDetail: Changed classOfDangerousGoods to Optional • HazardousInformationDetail: Updated AVPList		
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• HazardousInformationHeader: Updated AVPList • HazardousMaterialsTransportationModeCode: Moved to common. • HealthBenefitInformationModule: Changed Name to HealthRelatedInformationModule • HealthBenefitInformationModule: Changed Name to HealthRelatedInformation • HealthBenefitInformationModule: "isTradeItemChemicalNotIntendedForHumanConsumption" • HealthcareItemInformation: Added AVP • HealthcareItemInformationModule: Made association to HealthcareItemInformation 0..1 • HealthWellnessPackagingMarkingModule: Changed association to HealthWellnessPackagingMarking to 0..1 • HealthWellnessPackagingMarkingModule: Added AVP • MarketingInformation: Changed gradeCode to gradeCodeReference • MarketingInformation: Changed tradeItemFeatureCode to tradeItemFeatureCodeReference • MarketingInformation: Added AVP • MarketingInformationModule: Made association to MarketingInformation 0..1 • MedicalDeviceInformation: Added Avp • MedicalDeviceInformationModule: Made association to MedicalDeviceInformation 0..1 • MovieRevenueInformation: Added Avp • MovieRevenueInformationModule: Made Association to MovieRevenueInformation 0..1 • NonFoodIngredient: Deleted isTradeItemChemicalNotIntendedForHumanConsumption • NonFoodIngredient: Changed name of NonFoodIngredientCode to NonFoodIngredientCodeReference • NonFoodIngredientModule: Changed association to NonFoodIngredient to 0..* • NonFoodIngredientStrength: Changed Name to Ingredient Strength • NonGTINLogisticsInformation: Added Depth, Height, Width, Deleted link to TradeItemDimensions • NonGTINLogisticsInformation: Added AVP • NonGTINLogisticsInformation: Made link to NonGTINLogisticsUnitInformation Optional and Not Repeating. • NutrientDetail: Changed dailyValueIntakePercent to decimal • NutrientHeader: Changed attribute PreparationTypeCode to PreparationStateCode • NutritionalInformationModule: Changed Name of Module • NutritionalInformationModule: Added AVP to Module Class to match TSD • NutritionalInformationModule: Deleted NutritionalClaimCode and added new class		
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NutritionalClaimDetail with two new optional attributes (nutritionalClaimTypeCode, nutritionalClaimNutrientElementCode) • ONIXPublicationCollectionInformation:collectionTypeCode changed to collectionTypeCodeReference • ONIXPublicationFileInformation:Added AVP • ONIXPublicationFileInformationModule:Made association to ONIXPublicationFileInformation 0..1 • Organic Information:Created new class and Moved to GDSN Common • OrganicClaim:Changed organicPercentClaim to decimal • OrganicClaim:Moved to GDSN Common • OrganismClassification: Added AVP • OrganismClassificationModule:Changed Association to OrganismClassification to 0..* • Packaging:Moved Extension to last element before AVP • Change PackagingOwnerName to (1..200). Note this is a new attribute for Packaging along with PackagingOwnerIdentification. • PackagingMarkingModule: Added AVP • PackagingMarkingModule:Made Association to Packaging Marking 0..1 • PartyInRole: Made PartyRole Mandatory • PartyInRole:Added attribute partyAddress • PermitIdentification:Added association to ReferencedFileInformation • PharmaceuticalItemInformationModule:Made Association to PharmaceuticalInformation 0..1 • PharmaceuticalItemInformationModule:Added AVP • PHInformation:exactPH change to decimal • PHInformation:maximumPH changed to decimal • PHInformation:minimumPH changed to decimal • PhysicalChemicalPropertyInformation:lowerExplosiveLimit changed to decimal • PhysicalChemicalPropertyInformation:upperExplosiveLimit changed to decimal • PhysicalResourceUsageInformation :Changed physicalResourceUsageAgencyCode to physicalResourceUsageAgencyCodeReference • PhysicalResourceUsageInformation :Changed physicalResourceUsageAgencyCodeReference to 0..1 • PhysicalResourceUsageInformationModule:Added automaticPowerDownDefaultTimePeriod • PhysicalResourceUsageInformationModule:Added isTradeItemAutomaticPowerDownEnabled • PhysicalResourceUsageInformationModule:Added avplist • PhysicalResourceUsageTradeItemClassification:physicalResourceUsageClassificationCodeReference • PhysicalResourceUsageTradeItemClassification:physicalResourceUsageSubclassificationCodeReference • PlaceOfProductActivity: Changed association to new Country Class. Activity Target Market class deleted.		
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• PlaceOfItemActivityModule:Added Association Name to Country class. • PlaceOfItemActivityModule:Changed activityRegion to activityRegionDescription and changed datatype to description200 • PlaceOfProductActivity: Changed tradeItemProvenanceStatement to provenanceStatement • PlaceOfProductActivity: Moved in countryOfOriginStatement from PlaceOfItemActivityModule • PlaceOfItemActivityModule:Added AVP • PlaceOfItemActivityModule: Changed Name of Class from placeOfItemActivity to placeOfProductActivity • PlaceOfItemActivityModule:Moved PlaceOfProductActivity Class to GDSN Common • PlaceOfProductActivity: Changed TradeItemActivityTypeCode to ProductActivityTypeCode • PlaceOfProductActivity:Added direct association to country for countryOfOrigin. • PlatformInformation: Changed name of packagingLevel to PlatformPackagingLevel • PlatformInformation:Changed name of packagingWeight to PlatformPackagingWeight • PlatformInformationModule:Added Extension • PlumbingHVACPipeInformation: Added Avp • PreparationMethod:productYieldVariationPercentage changed to decimal • PreparationServing:Changed ConvenienceLevelPercent to decimal • PromotionalItemInformation:Added AVP • PromotionalItemInformationModule: Made association to PromotionalItemInformation 0..* • PublicationTitleRating: Added AVP • PublicationTitleRating: Changed titleRatingCode to titleRatingCodeReference • PublicationTitleRatingModule:Added new class PublicationTitleRating • PublicationTitleRatingModule:Moved all attributes to PublicationTitleRating • REACHUseDescriptorInformation:rEACHChemicalProductUseDescriptorCode made facets 1..35 • REACHUseDescriptorInformation:rEACHEnvironmentReleaseUseCategoryCode made facets 1..35 • REACHUseDescriptorInformation:rEACHProcessUseDescriptorCode made facets 1..35 • REACHUseDescriptorInformation:rEACHSectorUseDescriptorCode made facets 1..35 • ReferencedFileDetail:Added AVP • ReferencedFileDetailInformationModule:Made association to ReferencedFileDetail optional • ReferencedFileInformation:Moved Extension to last element		
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• RegulatedChemical: Changed regulatedChemicalIdentifier to regulatedChemicalIdentifierCodeReference • RegulatedTradeItemModule:Moved regulationTypeCode to RegulatoryInformation, changed name • RegulatoryInformation:Added AvpList • ReturnableAssets:Made returnableAssetOwnerName facets string{1..200} • SalesConditionsInformation:Changed Name to SalesInformation • SalesConditionsInformationModule:Changed name to SalesInformationModule • SalesConditionsInformationModule:Added AVP • SecurityTagInformation:Added Avp • SecurityTagInformationModule:Made association to SecurityTagInformation 0..* • ServingQuantityInformation:Changed numberOfServingsPerPackage to decimal • SoftwareSystemRequirements: Added AVP • SpecificGravityInformation: specificGravity changed to decimal. • SustainabilityInformation:Deleted Extension Attribute • SustainabilityInformation:Changed association to Sustainability to 0..1 • SustainabilityInformation: Changed postConsumerRecycledContentPercentage to decimal. • SustainabilityInformation: Changed renewablePlantBasedPlasticComponentsPercent to decimal. • SustainabilityInformation:Changed totalRecycledContentPercentage to decimal. • TextileMaterial: Added AVP • TextileMaterial: Made Association to TextileMaterialComposition 0..* • TextileMaterialComposition: Added AVP • TextileMaterialModule: Made Association to TextileMaterial 0..* • Trade Item: Made relationship to TradeItemInformation Optional • Trade Item: Changed context data type to TradeItemContextCode • Trade Item: Added NextLowerLevelTradeItemTradeItemInformation. • Trade Item: Moved quantityOfChildren to NextLowerLevelTradeItem Class • Trade Item: Moved totalQuantityOfNextLowerLevelTradeItem to NextLowerLevelTradeItem Class • Trade Item: Added relation to Party Reference for informationProvider • Trade Item: Added relation to Party Reference for brandOwner • Trade Item: Added relation to Party Reference for informationProvider		
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• Trade Item: Added AVP To TradeItem • Trade Item: Added new class DisplayUnitInformation. Contains display attributes removed from TradeItemMeasurements. • Trade Item Information: productionVariantDescription changed data type to Description70 • TradeItemComponents: Added contentsDescription • TradeItemDescriptionInformation: Changed Variant to VariantDescription • TradeItemDescriptionInformation: Added AVP • TradeItemDescriptionInformation: regulatedProductName changed from string to description500 • TradeItemDescriptionInformation: Changed name of tradeItemGroupIdentificationCode to tradeItemGroupIdentificationCodeReference • TradeItemDisposalInformation: componentsLabeledForDisassemblyRecyclingPercent changed to decimal • TradeItemDisposalInformationModule: Made association to TradeItemDisposalInformation optional 0..1 • TradeItemDisposalInformationModule: Added AVP • TradeItemHandlingModule: Deleted consumerUsageStorageInstructions • TradeItemHandlingModule: Added AVP • TradeItemHandlingModule: Made association to TradeItemHandlingInformation optional • TradeItemHierarchy: Added AVP • TradeItemHierarchyModule: Made association to TradeItemHierarchy 0..1 • TradeItemHumidityInformationModule: Made association to TradeItemHumidityInformation Optional (0..*) • TradeItemHumidityInformationModule: Made MaximumHumidityPercentage a decimal • TradeItemHumidityInformationModule: Made MinimumHumidityPercentage a decimal • TradeItemHumidityInformationModule: Changed TemperatureQualifierCode to HumidityQualifierCode • TradeItemHumidityInformationModule: Changed data type to TemperatureQualifierCode) • TradeItemMeasurements: Added Depth, Height, Width • TradeItemMeasurements: Added AVP • TradeItemmeasurementsModule: Made Association to TradeItemMeasurements Optional • TradeItemMeasurements: Removed displayTypeCode, hasDisplayReadyPackaging, isTradeItemADisplayUnit. • TradeItemPrice: Changed PriceBasisQuantity data type to quantity from amount • TradeItemPrice: Made tradeItemPriceType optional • TradeItemPriceInformation: Made cataloguePrice association to TradeItemPrice 0..*		
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• TradeItemPriceInformation: Made suggestedRetailPrice association to TradeItemPrice 0..* • TradeItemPriceInformation:Added named association for cataloguePrice • TradeItemPriceInformation:Added named association for suggestedRetail • TradeItemPriceInformation:Added named association for additionTradeItemPrice • TradeItemSalesConditions:Added TradeItemConditionCode • TradeItemSizeModule:Added AVP • TradeItemTemperatureInformation:Added AVP • TradeItemTemperatureInformationModule:Added AVP • TradeItemVariant: Changed tradeItemVariant to tradeItemVariantValue • TransportationClassification: Moved to GDSN Common • VariableTradeItemInformation:Added AVP • VariableTradeItemInformation:Changed VariableWeightAllowableDeviationPercentage to a decimal. • VideoDisplayDeviceInformation:Added AVP • VideoDisplayDeviceInformationModule:Changed Association to VideoDisplayDeviceInformation to 0..1 • WarrantyInformation:Added AVP • WarrantyInformation:Changed name of warrantyEffectiveDateTypeCode to warrantyEffectiveDateType • WarrantyInformation: Changed name of warrantyTypeCode to warrantyType • WarrantyInformationModule: Made Association to Warranty Information 0..* • Changed Code STORAGE to STORAGE_HANDLING in TemperatureTypeQualifier Code List. • Removed BLUE_ANGEL from TradeItemRegulationTypeCodeList. • Added GS1_AttributeValuePairList as a data type. • Changed humidityQualifierCode to 0..1. (10Jun2013) • Changed association from DangerousSubstanceInformationModule to DangerousSubstanceInformation to 0..* (10Jun2013) • Added gs1TradeItemIdentificationKeyValue to TradeItemDataCarrierAndIdentificationModule (18Jun2013) • Changed TradeItemFormDescription to 0..* (18Jun2013) • Changed titlesAfterNames and titlesBeforeNames to 0..* (18Jun2013)		
• Added SPIO and MCU into Rating Agency List. • Added in Title Ratings for Television • Changed name of Unit of Measure Code List to MeasurementUnitCode to match data types. • Updated definition of isTradeItemAConsumerUnit based on WR 11-263	1.0.4	

- Added in CHEMICAL_ASSESSMENT_SUMMARY and CHEMICAL_SAFETY_REPORT to ReferencedFileTypeCodeList. - Packaging Type Code: Changed BNG to X11, BRG to BRI, PPG to PLP and WRG to WRP to match actual Rec 21 Values. - Removed code 18 (Biokreis) from OrganicClaimAgencyCodeList per CR 12-218		
- Updated definition for classOfDangerousGoods to reference the version of code list to use. - Changed tradeItemFeatureBenefit to Description250. Note needed to add new data type into GDSN Common for Description250. - Changed names of attributes in CompoundStringAttributeValuePair Class to attributeName, attributeCode, codeListNameCode, codeListVersion. Made codeListNameCode mandatory. - Changed name of attribute in StringAttributeValuePair Class to attributeName. - Changed partyRole in PartyInRole Class to optional. - Added AVPLists to the following classes in the SafetyDataSheet Module (ChemicalIngredient, LethalDoseConcentrationInformation, FlashPoint, PhysicalChemicalPropertyInformation, SpecificGravityInformation) - Moved PreparationType into PreparationServing Class. Made PreparationServing Class Repeatable. Changed PreparationMethodClass to ProductYieldInformation. Moved manufacturerPreparationType into FoodAndBeveragePreparationServingModuleClass. - Updated definitions for following attributes for multi-language, currency, measurement (accidentalReleaseMeasuresDescription, additionalTradeItemDescription, additionalSDSInformation, allergenStatement, allowanceChargeDescription, autoignitionTemperature, boilingPoint, characteristicValue, chemicalPropertyAdditionalDescription, clothingCut, colorDescription, compulsoryAdditivesLabelInformation, conditionsToAvoidDescription, consumerPackageDisclaimer, consumersafetyInformation, consumerUsageInstructions, consumerStorageInstructions, contactDescription, countryOfOriginStatement, dailyValueIntakeReference, descriptionShort, diameter, dietTypeDescription, discountDescription, displayScreenBezelSize, displayScreenSize, drainedWeight, dutyFeeTaxBasis, ecologicalInformationDescription, extinguishingMediaDescription, fileBackgroundColourDescription, fileCameraPerspective, fileCampaignDescription, fileColourCalibration, fileCopyrightDescription, fileDepictedSceneDescription, fileDepictedSeason, fileDisclaimerInformation, fileFeeDescription, fileLifestyleDescription, filePrintHeight, filePrintWidth, fileRecommendedUsageDescription, fileResolutionDescription, fileRightsDescription, fileSize, fileStoryDescription, fileTalentDescription,	1.0.5	

fileUsageRestriction, fireFighterProtectiveEquipmentDescription, firstAidProceduresDescription, flammablePropertiesDescription, flashPointTemperature, flashPointTemperature, freeQuantityOfNextLowerLevelTradeItem, freeQuantityOfProduct, freezingMeltingPoint, functionalName, handlingInstructionsDescription, hazardousMaterialsHandlingProceduresDescription, hazardousWasteDescription, hazardStatementsDescription, healthClaim, inBoxCubeDimension, ingredientName, ingredientStatement, intendedPublicationMediaTypeDescription, invoiceName, languageSpecificBrandName, languageSpecificSubBrandName, manufacturerTakeBackProgramFee, materialCode, maximumOptimumConsumptionTemperature, minimumFishMeatPoultryContent, minimumOptimumConsumptionTemperature, nestingIncrement, netContent, nonhazardousWasteDescription, noteToPhysician, nutritionalClaim, orderingLeadTime, orderSizingFactor, organismMaximumValue, packagingMaterialCoatingTypeDescription, packagingMaterialCompositionDescription, packagingMaterialCompositionQuantity, packagingMaterialDescription, pegHorizontal, pegVertical, physicalFormDescription, precautionaryStatementsDescription, precautions, preparationConsumptionPrecautions,preparationInstruc tions,priceComparisonMeasurement, productYield, prohibitedForTransportationReason, protectiveEquipment, protectiveEquipmentAdditionalDescription, provenanceStatement, quantityContained, regulatedChemicalDescription, restrictionDescription, returnableAssetCapacityContent, servingSize, servingSizeDescription, servingSuggestion, shippingcontainerquantitydescription, shippingRegulationException, specialRequirementsDescription, stackingWeightMaximum, StorageCompatibilityDescription, storageRequirementsDescription, testCriteriaDescription,, testSpeciesDescription, totalScreenArea, toxicologicalInformationDescription,tradeItemCompositi onDepth, tradeItemCompositionWidth, tradeItemGroupIdentificationDescription, unitsPerTradeItem, Variant, warningCopyDescription, warrantyDescription, workingPressureRatingMaximum, workingPressureRatingMinimum • Changed reachChemicalRegistrationNumber to rEACHChemicalRegistrationNumber in ChemicalIngredientClass (19-02-14) • Changed association for psychotropicSubstance in the PharmaceuticalItemInformationModule to ExternalCodeValueInformation (19-02-14) • Added code value DELIVERY_TO_MARKET to TemperatureQualifierCode		
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• PackagingInformationModule - o Removed association names/roles for packagingPackageDeposit, packagingPackagingMaterial (associations still exist to PackageDeposit and PackagingMaterial) - o Added doesPackagingHaveWheels, platformTermsAndConditionsCode, platformTypeCode to Packaging Class. - o Moved Data Types PackagingMaterialPerformanceCode, PackagingMaterialAppliedProcessCode out of GDSN Common and into Packaging Module. - o Deleted extension point from Packaging Class. - o Made packagingTypeCode optional. Changed its sequence. • FoodAndBeverageIngredientModule - o Deleted association for SubIngredient - o Changed data type of IngredientSequence to String. Changed sequence of ingredienSequence to be first attribute. • ProductCharacteristicsModule: Added new module. • PackagingSustainabilityModule: Added new module, • Deleted PlatformInformationModule. • ReferencedFileDetailInformationModule - o Removed fileLanguageCode from FileContentInformation (moved to ReferencedFileInformation class) - o Added intermediary class (ReferencedFileHeader) which imports ReferencedFileDetail. - o ReferencedFileHeader to ReferencedFileDetail is now 0..1. • SafetyDataSheetModule - o Removed association to TransportationClassification • TransportationHazardousClassificationModule - o Moved TransportationClassification and RegulatedTransportationMode classes out of common and into TransportationHazardousClassificationModule along with associated data type. • ReferencedFileInformation - o Added fileLanguageCode and association to AVPList • ProductActivityDetails - o Added association (productActivityRegionZoneCodeReference) to ExternalCodeValueInformation. • Code Lists - o Changed RatingContentDescriptorCode (Film) for Nudity from NC to N. - o Added AA Intermediate bulk container, rigid plastic to Packaging Type Code - o Added CMS into Packaging Type for Clam Shell	1.0.6	
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- o In Nutritional Claim Nutrient Element Code, changed ARTIFICIALLY_SWEETENERS to ARTIFICIAL_SWEETENERS - o Added the codes ADDED and UNSWEETENED to the NutritionalClaimTypeCode. - o Added NO_BARCODE to Data Carrier Family Type Code - o Removed STERILE and EXTREMELY_CLEAN from PackagingMarkedAccreditation Code List - o Added STERILE and EXTREMELY_CLEAN to FeatureCodeList - o Deleted NORDIC_SWAN, GEZONDE_KEUZE_KLAVERTJE, IK_KIES_BEWUST, NYCKELHAL_MARK from Packaging Marked Label Accreditation Code - o Added SAFETY_SUMMARY_SHEET, SAMPLE_SHIPPING_ORDER, TESTING_METHODODOLOGY_RESULTS, REGULATORY_INSPECTION_AUDIT, RISK_ANALYSIS_DOCUMENT, QUALITY_CONTROL_PLAN, HAZARDOUS_SUBSTANCES_DATA, CERTIFICATION. - o Added CYLINDRICAL to packaging shape code. - o Added RESTRICTED_TO_SELL_16, RESTRICTED_TO_SELL_18, RESTRICTED_TO_SELL_21 to Consumer Sales Condition Type Code. - o Added CEN to Packaging Recycling Scheme Code. - o Changed MAX_DOOR_DRAWER_LID_CLEARANCE_W_HD L in DimensionTypeCode to match 2.8 value. - o Added COMPRESSED_LIQUID to Specific Gravity Reference Material Code. - o Add NOT_REQUIRED to RecommendedStatusCode - o Added NOT_APPLICABLE and UNSPECIFIED to GHS Signal Words Code - o Added BOTTLING to Place Of Activity Code List - o Removed EC_NATIONAL_HEALTH_MARK from PackagingMarkedLabelAccreditationCode - o Added ANIMAL_ID_HEALTH_MARK to PackagingMarkedLabelAccreditationCode		
• Removed link to ReferencedFileInformation from TradeItem • Changed organicClaimAgencyCode from 0..1 to 0..* • Changed organicTradeItemCode from 0..* to 0..1 • Replaced association from Packaging to Dimension with association to new class (PackagingDimension). Note: Association is no longer named. • Changed data type for TargetConsumerGender in Marketing Information Module from GenderEnumeration to TargetConsumerGender (new data type)	1.0.7	
• Added SPECIALIST_PRESCRIPTION_REQUIRED to Prescription Type Code • Added SAFETY_SUMMARY_SHEET, CHILD_NUTRITION_LABEL.	1.0.8	

PRODUCT_FORMULATION_STATEMENT to Referenced File Type Code. - Added following codes back into Trade Item Unit Descriptor: DISPLAY_SHIPPER, MIXED_MODULE. - Added the following codes to Measurement Unit Code A71,C52,C45,KPA,MBR, FML, PLT, NAN, AWG, CFU, MPN, BPM, TPI, OPM, KNM, RPM, VLT, E32, 2X, E09, D19, AMP, D55, MQH, F27, NU. - Added the following code to Organic Claim Agency Code: 999, 20. - Added the following codes to Battery Type Code for ECL: 15F15, 15F20, 20F20, 2CR1_3N, 2CR11108, 2CR5, 2R10, 3LR12, 3R12, 4LR44, 6F22, 8LR932, CR2, CR1025, CR1216, CR1220, CR1225, CR123A, CR1616, CR1620, CR1632, CR2012, CR2016, CR2025, CR2032, CR2330, CR2354, CR2430, CR2450, CR2477, CR3032, CR6362, CR7362, CR927, CRP2, CRV3, J, LR03, LR09, LR1, LR14, LR20, LR25, LR41, LR42, LR43, LR44, LR48, LR54, LR55, LR57, LR58, LR59, LR6, LR60, LR61, LR63, LR68, LR69, N, NR50, NR52, PR41, PR43, PR44, PR48, PR70, R03, R14C, R14S, R20C, R20S, R25, R40, R6C, R6S, RCRV3, SR41, SR42, SR43, SR44, SR45, SR48, SR54, SR55, SR57, SR58, SR59, SR60, SR63, SR66, SR68, SR69, SUB_C, LANTERN_SCREW, LANTERN_BIG, LANTERN_SPRING, OTHER - Updated Trade Item Unit Descriptor Code Usage section to reapply MX and DS. - Source Animal Code: Added BEEF_COW, CALF, FOWL - Updated definition for PU for WR 12-246. - Growing Method Code: Added CLONED_FOODS, HUMANELY_RAISED, SUSTAINABLE for ECLs. - Added references to code lists managed by external agencies for classOfDangerousGoods and unitedNationsDangerousGoodsNumber for ECLs. - Added columns in section 7.1 for Multi Values for (Descriptions, Measurements, Amounts)		
- Changed UNKOWN to UNKNOWN in PackagingChainOfCustodySourceCertifiedCode - Updated definition of Height, Width, Depth in Trade Item Measurements Module - Updated definitions of Height, Width, Depth in NonGTINLogisticsUnitInformationModule		
- Deleted PRIVATE_LABEL_DISTRIBUTION from BrandDistributionTypeCode - Model Changes Resulting in Schema Updates - TradeItemRegulationInformation/regulationTypeCode: Changed datatype to regulationTypeCode. - Certification/certificationValue: Changed datatype to string. - TargetConsumer/targetConsumerGender: Changed datatype to TargetConsumerGenderCode	1.0.9	

- o NonfoodIngredientModule/NonfoodIngredient: Increased length to String {1..500} - o DistributionMediaTrackInformation/trackTime: Changed datatype to string {1..70} - o ProductActivityDetails/productActivityRegionDescription: Changed datatype to Description500 - o Packaging/packagingTypeDescription: Added to schema and model. - o PlaceOfProductActivity /countryOfOriginStatement: Changed datatype to Description500 - o PlaceOfProductActivity/provenanceStatement: Changed datatype to Description500 - o AdditionalTradeItemDimensions: Changed class name from TradeItemDimensions to AdditionalTradeItemDimensions. - o In PackagingWeightReduction Class, changed proofOfOptimizedPackagingWeightStandardCode to proofOfPackagingWeightReductionStandardCode and proofOfOptimizedPackagingWeightStandardDescription to proofOfPackagingWeightReductionDescription (model, GDD Report and Schema). • Updated following definitions to remove reference to repeating for multivalued or description. Note this information is in section 7.1: flashPointTemperature, provenanceStatement, countryOfOriginStatement , productActivityRegionDescription, restrictionDescription, componentDescription, contactDescription, allergenStatement, clothingCut, chemicalPropertyAdditionalDescription, regulatedChemicalDescription, testCriteriaDescription, consumerStorageInstructions, consumerUsageInstructions, minimumFishMeatPoultryContent, orderSizingFactor, dietTypeDescription, dutyFeeTaxBasis, ingredientName, ingredientStatement, maximumOptimumConsumptionTemperature , minimumOptimumConsumptionTemperature, preparationConsumptionPrecautions, preparationInstructions, servingSuggestion, physiochemicalCharacteristicValue, compulsoryAdditiveLabelInformation, healthClaimDescription, consumerSafetyInformation, nutritionalClaim, dailyValueIntakeReference, servingSizeDescription, quantityContained, shippingContainerQuantityDescription, packagingCompositeMaterialDescription, packagingMaterialCoatingTypeDescription, packagingMaterialCompositionQuantity, returnableAssetCapacityContent, consumerPackageDisclaimer, warningCopyDescription, workingPressureRatingMaximum, workingPressureRatingMinimum, freeQuantityOfNextLowerLevelTradeItem, freeQuantityOfProduct, fileBackgroundColourDescription , fileColourCalibration, fileCompressionType, filePrintHeight, filePrintWidth, fileSize, fileCameraPerspective, fileDepictedSeason, fileLifestyleDescription,		
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fileStoryDescription, fileTalentDescription, itemsInFileDescription, fileCampaignDescription, fileDisclaimerInformation, fileFeeDescription, fileRightsDescription, fileUsageRestriction, intendedPublicationMediaTypeDescription, accidentalReleaseMeasuresDescription, additionalSDSInformation, conditionsToAvoid, ecologicalInformationDescription, firstAidProceduresDescription, hazardousMaterialsHandlingProcedures, noteToPhysician, storageRequirementsDescription, toxicologicalInformationDescription, hazardStatementsDescription, precautionaryStatementsDescription, autoIgnitionTemperature, boilingPoint, freezingMeltingPoint, flashPointTemperature, protectiveEquipmentAdditionalDescription, protectiveEquipment, storageCompatibilityDescription, priceComparisonMeasurement, allowanceChargeDescription, additionalTradeItemDescription, descriptionShort, functionalName, labelDescription, tradeItemDescription, variantDescription, languageSpecificBrandName, languageSpecificSubbrandName, manufacturerTakeBackProgramFee, handlingInstructionsDescription, unitsPerTradeItem, prohibitedForTransportationReason, shippingRegulationException, specialRequirementsDescription, displayScreenBezelSize, displayScreenSize • Updated definition for doesTradeItemContainLatex, measurementPrecisionCode, numberOfServingsPerPackageMeasurementPrecisionCode, provenanceStatement, countryOfOriginStatement, codeListNameCode based on work request. • Updated GDD reports in document to match UML (UML is used to develop schemas): numberOfPiecesInSet, PackageTypeCode, certificationEffectiveEndDateTime, certificationEffectiveStartDateTime, dangerousGoodsHazardousCode, chemicalRegulationInformation, orderableReturnableConditionsCode, ingredientName, productYieldInformation, compulsoryAdditiveLabelInformation, MedicalDeviceTradeItemModule(class name), alternativeName, alternativeNameType, suffixToKey, titleElementLevel, oNIXTitleTypeCode, productCharacteristics, applicationIdentifierTypeCode, regulatedProductName, brandName, TextileMaterial association to TextileMaterialComposition, VideoDisplayDeviceInformationModule to VideoDisplayDeviceInformation, rEACHEnvironmentReleaseUseDescriptoryCode to rEACHEnvironmentReleaseUseCategoryCode • Updated definition for code PREFERRED in ReferencedTradeItemTypeCode. • Updated definitions for following PlatformTypeCodes: 10,11,12,13,30, 31, 35. 41,42,43,47 • Deleted the following PlatformTypeCodes 36, 37, 40 • Changed definition for PackagingTypeCode AA		
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- Deleted the A_PULLO, ALKO from PackagingRecyclingSchemeCode - Updated definitions for ENERGY_STAR, MARINE_STEWARDSHIP_COUNCIL_LABEL in PackagingMarkedLabelAccreditationCode. - Deleted DIET_PRODUCT_450_800_KCAL_PER_DAY, DIET_PRODUCT_800_1200_KCAL_PER_DAY from PackagingMarkedDietAllergenCode. - Changed following codes for MeasurementUnitCode: Femtolitre now Q32, PicoLitre now Q33, NanoLitre now Q34. - Deleted DietTypeCode of ORGANIC - Deleted ConsumerSalesConditionTypeCode BTC, OTC, PRESCRIPTION_REQUIRED and replaced them with codes 1,2,3. Added UNRESTRICTED - Updated definition of BatteryTypeCode 9_VOLT. - Made following definition updates in GDD reports for typos or cut off. - dubbedSubtitledCode: Dubbed = The film has a translated alternative soundtrack. - studioName: The name of the company (called studio in the film industry) that made the publication. - dutyFeeTaxCountryCode: The country that a duty, fee or tax may be applicable to for a trade item. - dutyFeeTaxEffectiveEndDateTime: The effective date on which the tax, fee or duty must end being collected. - dutyFeeTaxEffectiveStartDateTime: The effective date on which the tax, fee or duty must start being collected. - Code Lists - Deleted Packaging Renewable Content Type Code List as there is no attribute that uses this list of protocols in 2.8 or 3.1. - Updated definition of ADDED to "A claim stating that a substance (e.g. sugar) has been added to a food." - Updated Grape Variety Code List to reference latest version of GPC. - Changed 7.1 to say CataloguePrice does not repeat for value or currency.		
December ECL: - AllergenTypeCode: - Added AD, BR,CS,DA,DP,FH,FT,HB,HD, HE,HH,HN,HP,MH,ON,PM,PN,PP,PS,SO,SS,TA,T D,TR - Updated Definition for AI, HC, NR - Deleted MO - ConsumerSalesConditionTypeCode 1,2,3, RESTRICTED_TO_SELL_12, RESTRICTED_TO_SELL_6, UNRESTRICTED - CountryCode: Added NON_EU - DangerousGoodsRegulationCode: Added: ZCG, ZGE, ZNA, ZNB	1.1.0	

• DataCarrierTypeCode: Added EPC_ENABLED_RFID_TAG • DimensionTypeCode: Added DIRECT_SHIP_TO_CONSUMER • FoodBeverageCompositionDatabaseCode: Added USDA • Functional Basis Unit Code: Changed code DMQ1 to DMQ in order to facilitate mapping to Measurement Unit Code. • ImportClassificationTypeCode: Added EU_EXCISE_PRODUCT_CODE, NOMENCLATURE_GENERALE_DES_PRODUITS • LevelOfContainmentCode: Added 30,50,60, UNDECLARED • MeasurementPrecisionCode: Added ABOUT, ABSENCE, GREATER_THAN, GREATER_THAN_OR_EQUAL, LESS_THAN_OR_EQUAL, NOT_SIGNIFICANT_SOURCE_OF TRACE, UNDETECTABLE, UNSPECIFIED,USUALLY, VARIED • MeasurementUnitCode: - o Added 1N, 4N, ATM, ATT, FJ, G21, GL, PTN, Q30, UA, X_DBA, XRE - o Deleted AIU - o Changed code values Q32(was FML) ,Q33(was PLT), Q34 (was NAN) to reflect Rec 20 codes. • MicrobiologicalOrganismCode: Added BACILLUS_SUBTILIS • NutrientTypeCode: Added X_SALATRIM, X_CASNWH, X_FUNS, X_PROSOL, X_SUCRA • NutritionalClaimNutrientElementCode: Added ALMONDS, ANTIOXIDANTS, ARTIFICIAL_FLAVOUR, BARLEY, BRAZIL_NUTS, CASHEWS, CRUSTACEAN, DAIRY, HAZELNUTS, MACADAMIA, MOLLUSCS, MULTIGRAIN, MUSTARD, OAT, PECANS, PINENUTS, PISTACHIOS, PLANT_STEROLS, RYE, SESAME, TREE_NUTS, TRITICALE, WALNUTS, WHOLE_GRAIN, WHOLE_WHEAT, YEAST • NutritionalClaimTypeCode: Added MADE_WITH • NutritionalClaimNutrientElementCode: - o Corrected spelling issue in code FLOURIDE - o Updated definition of TREE_NUTS • PackagingMarkedDietAllergenCode: Added FOOD_WITH_VERY_LOW_ENERGY_CONTENT, INFANT_FORMULA, MEAL_REPLACEMENT_FOR_WEIGHT_CONTROL, TOTAL_DIET_REPLACEMENT_FOR_WEIGHT_CONTROL • PackagingMarkedFreeFromCode: Added FREE_FROM_ADDED_SULPHITES, FREE_FROM_ALMONDS FREE_FROM_BARLEY, FREE_FROM_BPA, FREE_FROM_BRAZIL_NUTS, FREE_FROM_CASHEWS, FREE_FROM_CRUSTACEAN, FREE_FROM_HAZELNUTS, FREE_FROM_MACADAMIA, FREE_FROM_MOLLUSCS, FREE_FROM_MUSTARD, FREE_FROM_OAT, FREE_FROM_PEA_PROTEIN, FREE_FROM_PEA_NUTS_AND_MADE_IN_A_PEA_NUT_FRI EE_FACILITY, FREE_FROM_PECANS, FREE_FROM_PINENUTS, FREE_FROM_PISTACHIOS,		
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FREE_FROM_RYE, FREE_FROM_SESAME, FREE_FROM_TREE_NUTS, FREE_FROM_TRITICALE, FREE_FROM_WALNUTS, FREE_FROM_WHEAT • PackagingMaterialTypeCode: Added WOOD_HARDBOARD, WOOD_MEDIUM_DENSITY_FIBERBOARD, WOOD_ORIENTED_STRANDBOARD, WOOD_PARTICLE_BOARD, WOOD_PLYWOOD • PackagingMarkedLabelAccreditationCode: - o Changed definition for ENERGY_STAR, MARINE_STEWARDSHIP_COUNCIL_LABEL - o Added 100_PERCENT_CANADIAN_MILK, ACMI,AGENCE_BIO,AISE, AISE_2005, AISE_2010, ALUMINIUM_ GESAMTVERBAND_DER_ ALUMINIUMINDUSTRIE, AMA_ORGANIC_SEAL_BLACK, AMA_SEAL_OF_APPROVAL, ANIMAL_WELFARE_APPROVED_GRASSFED, AQUACULTURE_STEWARDSHIP_COUNCIL, ARGE_GENTECHNIK_FREI, ASMI, ATG, AUSTRIA_BIO_GARANTIE, AUSTRIAN_ECO_LABEL,BEBAT, BELGAQUA, BENOR, ERCHTESGADENER_LAND, BEST_AQUACULTURE_PRACTICES, BEST_AQUACULTURE_PRACTICES_2_STARS, BEST_AQUACULTURE_PRACTICES_3_STARS, BEST_AQUACULTURE_PRACTICES_4_STARS, BIKO_TIROL, BIO_FISCH, BIO_RING_ALLGAEU, BIOLAND, BIOLAND_ENNSTAL, BIOS_KONTROLLE,BRC_GLOBAL_STANDARDS, BRITISH_DENTAL_HEALTH, BSCI, CAC_ABSENCE_OF_ALMOND, CAC_ABSENCE_OF_EGG, CAC_ABSENCE_OF_MILK, CAC_ABSENCE_OF_PEAUT, CANADIAN_AGRICULTURAL_PRODUCTS, CCA_GLUTEN_FREE, CCOF, CEBEC, CERTIFIED_ANGUS_BEEF, CERTIFIED_OE_100,COMPOSTABLE_ DIN_CERTCO, COSMEBIO, COTTON_MADE_IN_AFRICA, CPE_SCHARREL_EIEREN, CPE_VRIJE UITLOOP_EIEREN, CSA_INTERNATIONAL,DLG_AWARD, DOLPHIN_SAFE,DUURZAAM_VARKENSVLEES, DZG_GLUTEN_FREE,EARTHSURE, ECO_KREIS, ECOCERT_COSMOS_NATURAL,ECOCERT_COSM OS_ORGANIC, ECOGARANTIE,ECOVIN, ENEC, ERDE_SAAT, ERKEND_STREEK_PRODUCT,EU_ENERGY_LABE L, FAIR_FOR_LIFE, FAIR_TRADE_USA,FAIRTRADE_COCOA, FAIRTRADE_COTTON, FAIRTRADE_SUGAR, FEDERALLY_REGISTERED_INSPECTED_CANAD A, FLAMME_VERTE, FOODLAND_ONTARIO, FOREST_STEWARDSHIP_COUNCIL_100_PERCE NT, FOREST_STEWARDSHIP_COUNCIL_MIX, FOREST_STEWARDSHIP_COUNCIL_RECYCLED, FOUNDATION_ART, FRANCE_LIMOUSIN_MEAT,		
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FREILAND, FRIEND_OF_THE_SEA, GAA, GASKEUR, GASTEC, GENUSS_REGION_AUSTRIA, GEPRUEFTE_SICHERHEIT, GFCO, GFCP, GLOBAL_GAP, GLOBAL_ORGANIC_TEXTILE_STANDARD, GMP_CERTIFIED, GMP_ISO_22716, GOOD_HOUSEKEEPING, GRASKEURMERK, GREEN_SEAL, GREEN_STAR_CERTIFIED, GROEN_LABEL_KAS, HALAL_CORRECT, HALAL_PLUS, HEALTH_CHECK, HEUMILCH, ICADA, ICEA, ICELAND_RESPONSIBLE_FISHERIES, IFOAM, IFS_HPC, IHTK_SEAL, IKB_EIEREN, IKB_KIP, IKB_VARKEN, INSTITUT_FRESENIUS, INT_PROTECTION, ISEAL_ALLIANCE, IVN_NATURAL_LEATHER, IVN_NATURAL_TEXTILES_BEST, JODSALZ_BZGA, KABELKEUR, KAT, KEMA_KEUR, KIWA, KOMO, KVBG_APPROVED, LABEL_ROUGE, LACON, LAENDLE_QUALITAET, LGA, LVA, MEHR_WEG, MILIEUKEUR, MPS_A, MUNDUSVINI_GOLD, MUNDUSVINI_SILVER, MY_CLIMATE, NATUREPLUS, NATURLAND, NATURLAND_FAIR_TRADE, NDOA, NEULAND, NF_MARQUE, NON_GMO_PROJECT, NPA, NSF, OCIA, OEKO_CONTROL, OEKO_KREISLAUF, OEKO_QUALITY_GUARANTEE_BAVARIA, HNE_GEN_TECHNIK, OKOTEST, ORBI, ORGANIC_100_CONTENT_STANDARD, OZONE_FRIENDLY_GENERAL_CLAIM, PCO, PEFC_CERTIFIED, PEFC_RECYCLED, PET_TO_PET, PRODERM, PROVEN_QUALITY_BAVARIA, PUHTAASTI_KOTIMAINEN, QAI, QS, QUALITY_RHOEN, RAL_QUALITY_CANDLES, RECUPEL, RECYCLABLE_GENERAL_CLAIM, REGIONALFENSTER, REGIONALTHEKE_FRANKEN, RHP, SCHLESWIG_HOLSTEIN_QUALITY, SGS_ORGANIC, SKG_CERTIFICATE, SLG_CHILD_SAFETY, SLG_TYPE_TESTED, SLK_BIO, STIFTUNG_WARENTEST, STOP_CLIMATE_CHANGE, SUS, SUSTAINABLE_FORESTRY_INITIATIVE, SVENSK_FAGEL, SVENSKT_KOTT, TIERSCHUTZBUND, TNO_APPROVED, TOOTHFRIENDLY, TUEV_GEPRUEFT, UMWELTBAUM, UNSER_LAND, USDA_ORGANIC, VDE, VDS_CERTIFICATE, VEGAN_AWARENESS_FOUNDATION, VEGAN_SOCIETY_VEGAN_LOGO, VEILIG_WONEN_POLITIE_KEURMERK, WEIDEMELK, WHOLE_GRAIN_COUNCIL_STAMP, WSDA - Updated names and definitions for following PlatformTypeCodes: 10,11,12,13,30, 31, 35. 41,42,43,47 - PreparationTypeCode: Added COMBI_HEAT, COMBI_STEAM, CONVECTION, MIX, WHIP		
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• ProductActivityTypeCode: Added BIRTH, REARING, SLAUGHTER • ProductCharacteristicCode: Added alcoholicBeverageCharacteristicDescription, averageLife, colourOfAlcoholicBeverage, hairColorPermanence, isMaternity, numberOfPlys, sweetnessLevelOfAlcoholicBeverage, tamponAbsorbencyLevel, typeOfBottleClosure • ReferencedFileTypeCode: Added CROSSSECTION_VIEW, DOP_SHEET, ENERGY_LABEL, INTERNAL_VIEW, TRADE_ITEM_IMAGE_WITH_DIMENSIONS, ZOOM_VIEW • RegulationTypeCode: Added AEROSOL_REVERSE_EPSILON, AGRICULTURE_PROTECTION_REGULATION, BATTERY_DIRECTIVE, BIOCIDES_REGULATION, CE, CONSUMER_PRODUCT_SAFETY, COSMETIC_INFORMATION_REGULATION, DETERGENTS_SAFETY_REGULATION, E_MARK, EFFICIENCY_OF_LAMPS_LUMINARIES, EMC_DIRECTIVE, EU_REGULATION_FOR_FOODSTUFF, FEED_SAFETY_REGULATION, FOOD_FOR_SPECIAL_PURPOSES, FOOD_INFORMATION_REGULATION, FOOD_SUPPLEMENT_DIRECTIVE, FREE_PHARMACEUTICAL_PRODUCTS_DIRECTIVE, INTENDED_TO_COME_INTO_CONTACT_WITH_FOOD, LVD_DIRECTIVE MEDICAL_DEVICE_SAFETY, PHARMACEUTICAL_PRODUCT_DIRECTIVE, PRODUCT_OF_DAILY_USE_DIRECTIVE, PROP_65, RETURNING_OF_ELECTRONICAL_PRODUCT_DIRECTIVE, ROHS_DIRECTIVE, SECURITY_OF_ELECTRONIC_PRODUCTS_DIRECTIVE, TEXTILE LABELLING_REGULATION, TOY_SAFETY_DIRECTIVE, UNDERWATER_LIGHTING, UVA • SeasonParameterCode: Added CARNIVAL,CHRISTMAS, EASTER, HALLOWEEN, OTHER,VALENTINES_DAY • SizeTypeCode: Added AXLE_WIDTH, BACK_RISE, BAG_HEIGHT, BAG_STRAP_DROP, BAG_STRAP_LENGTH, BELT_LENGTH, BELT_WIDTH, BOOT_CIRCUMFERENCE, BOOT_SHAFT, BRIM, CHAIN_LENGTH, CIRCUMFERENCE, COOKWARE_DEPTH, COOKWARE_DIAMETER, COOKWARE_FIRST_HANDLE_LENGTH, DRESS_LENGTH, EXTENDED_DEPTH, EYEWEAR_BRIDGE_WIDTH, EYEWEAR_FRAME_WIDTH, EYEWEAR_LENS_HEIGHT, EYEWEAR_LENS_WIDTH, EYEWEAR_TEMPLE_LENGTH, FOOTIES_SHOULDER_TO_TOE, FRONT_RISE, GROUND_CLEARANCE, HANDLE_LENGTH, HEEL_HEIGHT, HIDDEN_PLATFORM_HEIGHT, JEWELLRY_HEIGHT, JEWELLRY_WIDTH, LEG_OPENING, ONSIES_SHOULDER_TO_TOE, PLATFORM_HEIGHT, PRECIOUS_METAL_PURITY, PRECIOUS_METAL_WEIGHT, RACQUET_LENGTH, RUNNING_LENGTH, SHEET_DEPTH, TORSO_LENGTH, TOTAL_STONE_KARAT, WAIST_WIDTH, WATCH_CASE_DEPTH, WATCH_CASE_HEIGHT,		
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WATCH_CASE_WIDTH, WATCH_STRAP_LENGTH, WATCH_STRAP_WIDTH, WHEEL_DEPTH, WHEEL_DIAMETER, WHEELBASE • SpecialItemCode: Added DEMONSTRATION_UNIT, LIMITED_PRODUCTION • SterilisationTypeCode: Added CHLORINE_DIOXIDE, DRY_HEAT, HIGH_INTENSITY_OR_PULSE_LIGHT, HIGH_LEVEL_DISINFECTANT, LIQUID_CHEMICAL, MICROWAVE_RADIATION, NITROGEN_DIOXIDE, SOUND_WAVES, SUPERCRITICAL_CARBON_DIOXIDE • Updated definition for Component/extension to reflect that it is at the component level.		
• ApparelInformationModule: - o Updated definition of StyleDescription. - o Added closureOrFastenerTypeCode, closureOrFastenerLocation, and sizeTermDescription. • AudioVisualMediaContentInformationModule: Added softwareCategoryTypeDescription • AudienceOrPlayerInformationModule: Added experienceLevel. • ConsumerInstructionsModule: Added recommendedUsageLocation • DutyFeeTaxInformationModule: Added dutyFeeTaxBasisPrice, dutyFeeTaxCountrySubdivisionShipFromCode, dutyFeeTaxCountrySubdivisionShipToCode, dutyFeeTaxLegalProvision • ElectronicDeviceCharacteristicsInformationModule: Added maximumResolution, resolutionTypeCode, microphoneTypeCode, includedOperatingSystem, connectorFinishDescription • FoodAndBeverageIngredientInformation: Updated definition for ingredientSequence • FoodAndBeveragePreparationServingModule: Updated definition for manufacturerPreparationTypeCode • HealthRelatedInformationModule: Added in definition for isTradeItemChemicalNotIntendedForHumanConsumption • MarketingInformationModule: Added campaignMediaTypeDescription, designer, educationalFocusDescription, targetOccasionOrTheme, targetConsumerAgeGroup • NonfoodIngredientModule: - o Added isNonfoodIngredientEmphasized, nonfoodIngredientDefinition, nonfoodIngredientPurpose - o Updated definition for ingredientStrength. • NonGTINLogisticsUnitInformationModule - o NonGTINLogisticsUnitInformation/depth: Updated definition. - o NonGTINLogisticsUnitInformation/width: Updated definition. - o NonGTINLogisticsUnitInformation/height: Updated definition. • NutritionalInformationModule: Added nutrientAdditionalInformationDescription and nutrientFormatTypeCodeReference. • ONIXPublicationFileInformationModule:	3.1.2	12-241 12-242 12-243 12-289 13-019 14-146 14-189 15-003 15-015 15-017 15-024 15-121 15-122 15-194 15-220 15-222 15-240 15-248 15-257 15-298 15-304 15-312 15-322 15-323 15-325 15-328 15-330 15-349 15-354 16-005 16-123 16-135 16-185 16-186 16-149

- o Added onixPartNumber, Created class ONIXSupplyDetail and attribute onixProductAvailabilityCode. - o Updated definitions for epubUsageStatus, epubUsageType and unnamedPersons to specify code list. - o Updated definition to unNamedPersons to specify code list. • PackagingInformationModule - o PackagingDimension/packagingDepth: Updated definition. - o PackagingDimension/packagingHeight: Updated definition. - o PackagingDimension/packagingWidth: Updated definition. - o PackagingLevel: Updated definition - o Added isPackagingReturnable • PackagingSustainabilityModule - o Deleted redundant association to Packaging Recovery in GDD report. • PlaceOfProductActivityModule: - o countryOfOriginStatement: Updated definition. - o productActivityRegionZoneCodeReference: Updated definition. • ReferencedFileDetailInformationModule: Added additionalCameraAngleCode, fileCameraPerspectiveCode, verticalCameraAngleCode • RegulatedTradeItemModule: Added isPackagingMarkedWithRegulatoryCompliance • SalesInformationModule: - o Added isPermitOrLicenseRequiredToSell. - o Changed definition for • SafetyDataSheetModule: Updated definition of chemicalIngredientConcentration. • SustainabilityModule - o physicalResourceUsage: Updated definition. - o runModeCode: Updated definition. • TextileMaterialModule: Added tradeItemMaterialDesignationDescription • TradeItem - o ChildTradeItem: Clarified that the generalization to TradeItemIdentification brings the GTIN into the class in the schema. - o tradeItemUnitDescriptorCode: Updated definition. - o AdditionalTradeItemDimensions/depth: Updated definition. - o AdditionalTradeItemDimensions/width: Updated definition. - o AdditionalTradeItemDimensions/height: Updated definition.		
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- o Updated definitions for numberOfPiecesInSet, totalNumberOfComponents • TradeItemDataCarrierAndIdentificationModule - o gs1TradeItemIdentificationKeyCode: Updated definition • TradeItemLifespanModule: Added itemMinimumDurability. • TradeItemMeasurementsModule - o TradeItemMeasurements/depth: Updated definition. - o TradeItemMeasurements/width: Updated definition. - o TradeItemMeasurements/height: Updated definition. • TransportationHazardousClassificationModule: - o shippingRegulationException: Updated definition. - o specialRequirementsDescription: Updated definition. • Section 7.1: - o tradeItemFormDescription: Removed details on repeatable language since it is a string value. - o tradeItemPrice: Changed to single value to match model. - o foodBeverageCompositionDescription: removed values for value and language repeatability. • Added TradeItemLicensingModule (New Module) • Added AnimalFeedingModule (New Module) • VideoDisplayDeviceInformationModule: Added displayPanelBacklightType • Removed section 7.2 since it is also in the implementation guide. • Updated definition of growingMethodCode.		
• Changed section 7.1 to label the attribute “designer” as repeatable for language. • Fixed model for AnimalFeedingModule to change references of 3.2 to 3.1.2. • Fixed table of contents.	3.1.2	Errata
• AdditionalCameraAngleCode data type and GDD report: added note to use FileCameraPerspective Code List. • Section 7.1, specified that onixPartNumber is repeatable for language only. • NutrientFormatTypeCodeReference, corrected GDD report for cardinality. • Corrected definition of animalNutrientMaximumPercent	3.1.2	Errata (1.1.5)