![GS1 logo]

The Global Language of Business

Shared Common Library Business Message Standard (BMS)

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1 Business Domain View

1.1 Introduction

This document defines components that are determined to be foundational across different domains within GS1. The objective is to document the components that are shared by GS1 BMS Standards in order to promote interoperability across GS1 domains (e.g. GDSN, eCom). This document contains only components that are determined to be foundational to all domains within GS1.

Shared components are used to enforce GS1 Architectural Principles (e.g. keys, message structure) or have common requirements across all contexts and include.

- GS1 Keys (e.g. Party Identification)
- Document Components (Document, Response)
- Common based on "global" concepts (e.g. Contact, Currency Exchange, Name and Address).

Universal components are defined as those that can be used in all domains without context specific requirements or are built around a static concept that does not change per context (e.g. postal address, geographical coordinate, dimension).

Shared components will be contained in a separate package and will be carefully managed to ensure that any changes that are made to any component do not have a negative impact across GS1 domains. A process will be in place to move components into the shared common if necessary. This will involve approvals across GS1 domains.

1.2 References

Reference Name	
GS1 Modeling Best Practices Version 0.6.0 for Publication 2.0	GS1 Modeling Best Practices Version 0.6.0 for Publication 2.0
eb Methodology	eb Methodology

2 Business Context

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

3 Business Transaction View

Not applicable

4 Business Information View

4.1 Primitive Types

Class diagram

class Primitive Data Types

«primitiveType» **string**	«primitiveType» **boolean**	«primitiveType» **decimal**	«primitiveType» **float**	«primitiveType» **duration**

«primitiveType» **dateTime**	«primitiveType» **time**	«primitiveType» **date**	«primitiveType» **gYearMonth**	«primitiveType» **gMonthDay**

«primitiveType» **gMonth**	«primitiveType» **gDay**	«primitiveType» **gYear**	«primitiveTy...» **hexBinary**	«primitiveTy...» **unsignedInt**

«primitiveType» **nonPositiveInteger**	«primitiveType» **negativeInteger**	«primitiveType» **nonNegativeInteger**	«primitiveTy...» **positiveInteger**	«primitiveType» **integer**

«PrimitiveTyp...» **base64Binary**	«primitiveType» **extension**	«PrimitiveType» **anyURI**		

GDD report

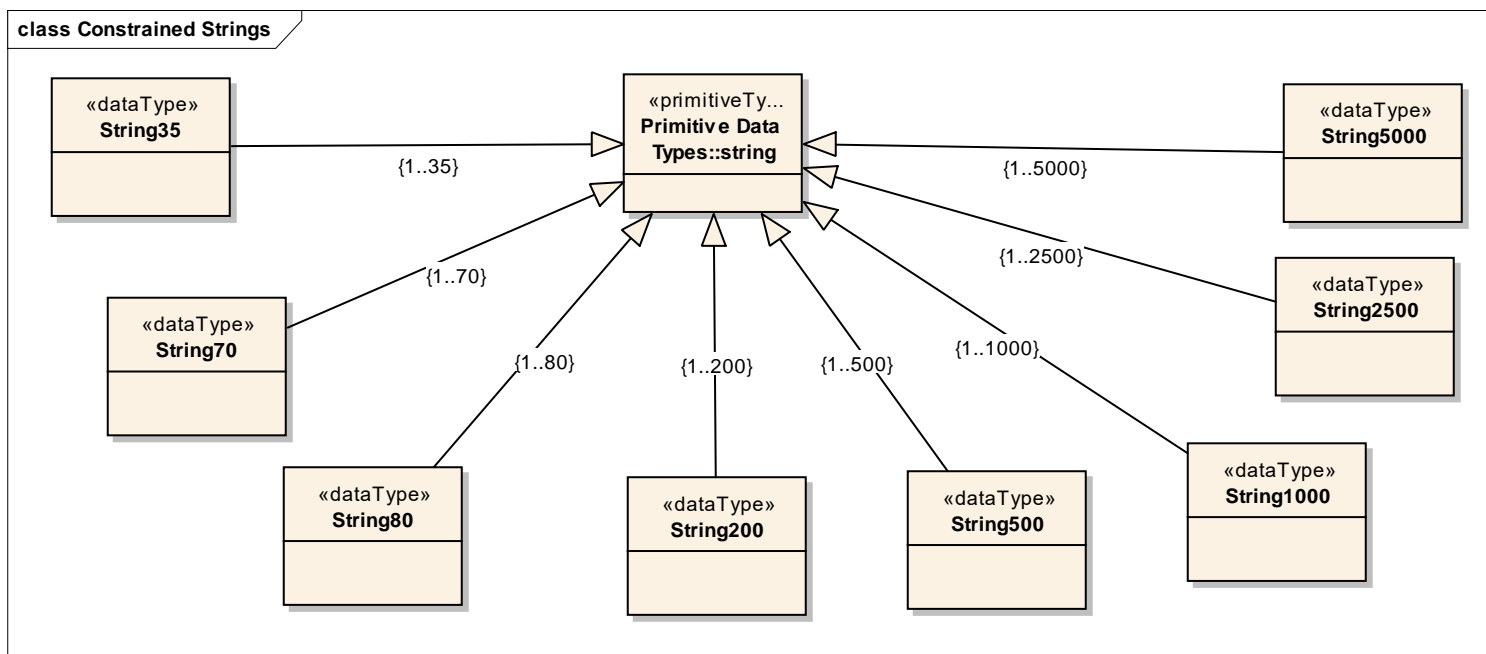| Data Type	W3C Definition
anyURI	anyURI represents a Uniform Resource Identifier Reference (URI). An anyURI value can be absolute or relative, and may have an optional fragment identifier (i.e., it may be a URI Reference).
base64Binary	Represents Base64-encoded arbitrary binary data.
boolean	Support the mathematical concept of binary-valued logic: {true, false}.
decimal	A subset of the real numbers, which can be represented by decimal numerals. decimal has a lexical representation consisting of a finite-length sequence of decimal digits (#x30-#x39) separated by a period as a decimal indicator. An optional leading sign is allowed.
dateTime	Objects with integer-valued year, month, day, hour and minute properties, a decimal-valued second property, and a boolean time zoned property.
date	Intervals of exactly one day in length on the timelines of dateTime, beginning on the beginning moment of each day (in each time zone), i.e. '00:00:00', up to but not including '24:00:00' (which is identical with '00:00:00' of the next day).
duration	A duration of time. The lexical representation for duration is the [ISO 8601] extended format PnYn MnDTnH nMnS, where nY represents the number of years, nM the number of months, nD the number of days, 'T' is the date/time separator, nH the number of hours, nM the number of minutes and nS the number of seconds. The number of seconds can include decimal digits to arbitrary precision.
extension	The data type Extension corresponds to the XML Schema 'ExtensionType' which contains the 'xsd:any namespace="##any"' element to allow for adding extensions.
Float	Float consists of the values $m \times 2^e$, where m is an integer whose absolute value is less than 2^{24}, and e is an integer between -149 and 104, inclusive.
gYearMonth	gYearMonth represents a specific Gregorian month in a specific Gregorian year. The lexical representation for gYearMonth is the reduced (right truncated) lexical representation for dateTime: CCYY-MM.
gMonthDay	gMonthDay is a Gregorian date that recurs, specifically a day of the year such as the third of May. The lexical representation for gMonthDay is the left truncated lexical representation for date: --MM-DD.
gMonth	gMonth is a Gregorian month that recurs every year. The lexical representation for gMonth is the left and right truncated lexical representation for date: --MM.
gDay	gDay is a Gregorian day that recurs, specifically a day of the month such as the 5th of the month. The lexical representation for gDay is the left truncated lexical representation for date: ---DD .
gYear	gYear represents a Gregorian calendar year (e.g. 1999)
hexBinary	hexBinary represents arbitrary hex-encoded binary data.
integer	integer is ·derived· from decimal by fixing the value of ·fractionDigits· to be 0 and disallowing the trailing decimal point.
negativeInteger	negativeInteger is ·derived· from nonPositiveInteger by setting the value of ·maxInclusive· to be -1.
nonPositiveInteger	nonPositiveInteger is ·derived· from integer by setting the value of ·maxInclusive· to be 0.

Data Type	W3C Definition
nonNegativeInteger	nonNegativeInteger is ·derived· from integer by setting the value of ·minInclusive· to be 0.
positiveInteger	Derived from nonNegativeInteger by setting the value of minInclusive· to be 1.
string	Represents character strings in XML
time	An instant of time that recurs every day.
unsignedInteger	unsignedInt is derived·from unsignedLong by setting the value of ·maxInclusive· to be 4294967295.

Note: Source is XML Schema Part 2: Datatypes Second Edition, W3C Recommendation 28 October 2004. More details are available at the following link: *http://www.w3.org/TR/xmlschema-2/*

4.1.1 Constrained Strings

Class diagram

GDD report

Not applicable, these types were included for technical reasons.

4.2   Business Data Types

4.2.1   Identifier Data Type

Class Diagram
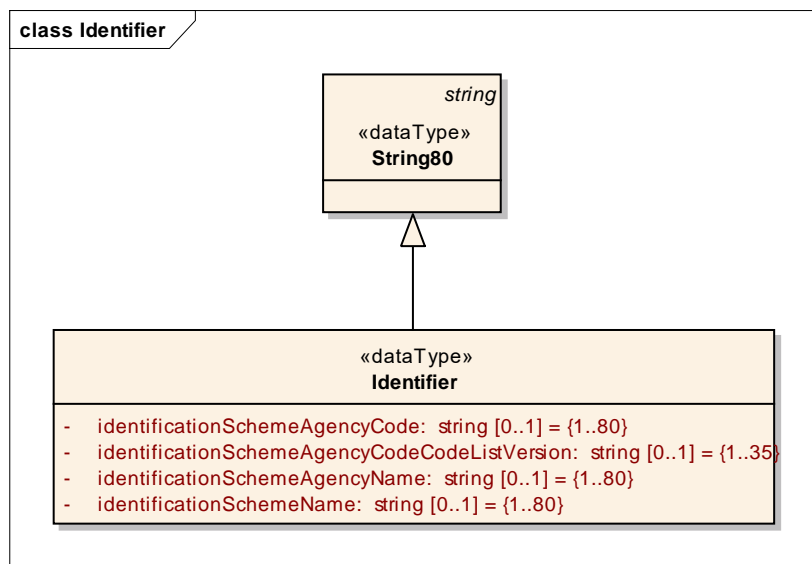
GDD report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Identifier				A value used to identify and distinguish uniquely, one instance of an object in an identification scheme from all other objects in the same scheme.	
Generalization		String80			
Attribute	identificationSchemeAgencyCode	string	0..1	The identification of the agency that maintains the identification scheme.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	identificationSchemeAgencyCodeCodeListVersion	string	0..1	The version of the code list of agency code lists.	
Attribute	identificationSchemeAgencyName	string	0..1	The name of the agency that maintains the identification scheme.	
Attribute	identificationSchemeName	string	0..1	The name of the identification scheme.	

4.2.2 GS1 Key Data Types

Class Diagram
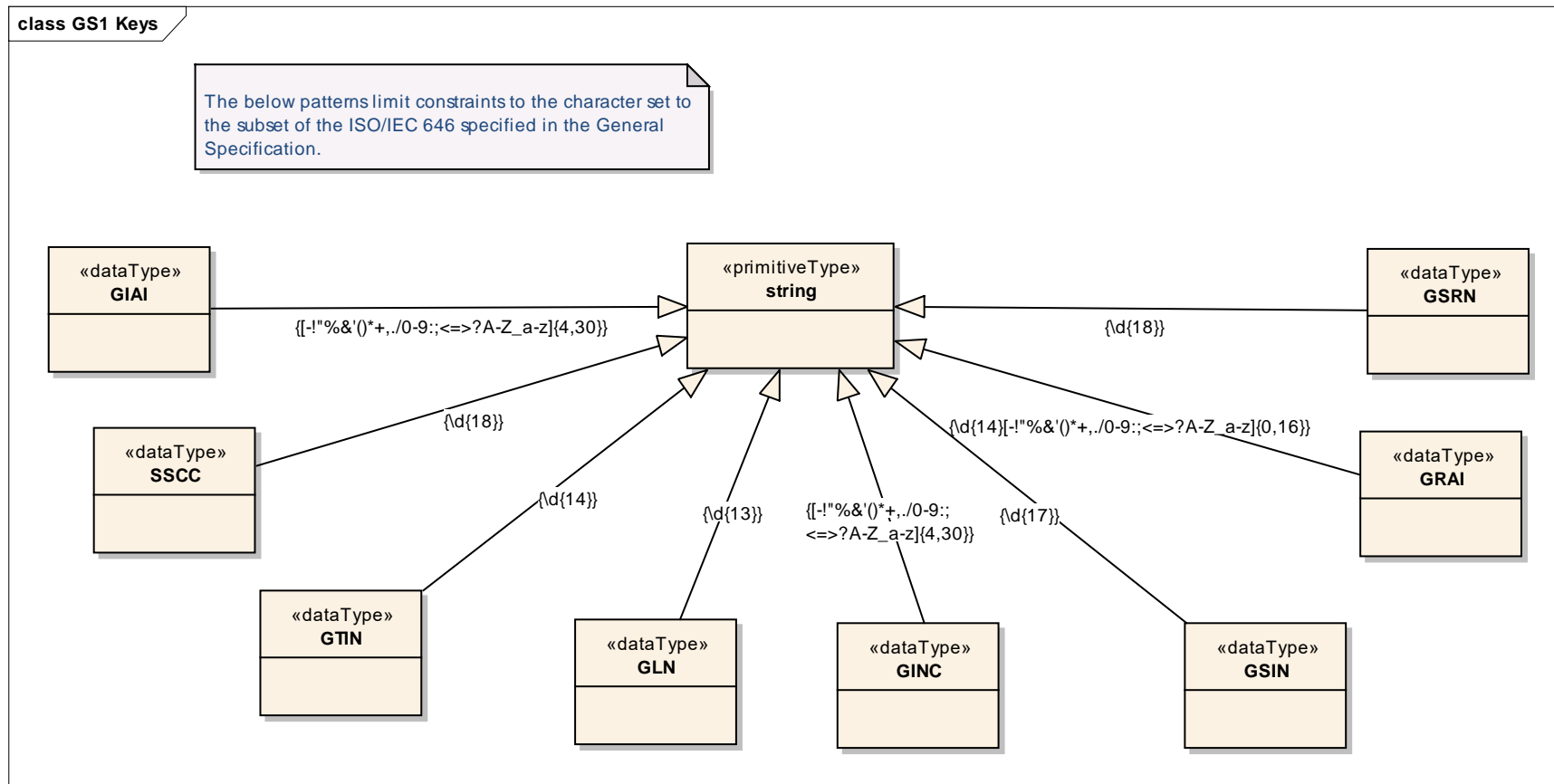
Patterns

Key	Pattern	Description
GIAI	[-!"%&'()*+,./0-9:;<=>?A-Z_a-z]{4,30}	Minimum 4, Maximum 30 alphanumeric characters restricted to A-Z (uppercase), a-z (lowercase), 0-9, and the special characters listed (e.g. %, &, etc..) Note 1
SSCC	\d{18}	Exactly 18 numeric digits

Key	Pattern	Description
GTIN	\d{14}	Exactly 14 numeric digits
GLN	\d{13}	Exactly 13 numeric digits
GSIN	\d{17}	Exactly 17 numeric digits
GINC	[-!"%&'()*+,./0-9:;<=>?A-Z_a-z]{4,30}	Minimum 4, Maximum 30 alphanumeric characters restricted to A-Z (uppercase), a-z (lowercase), 0-9, and the special characters listed (e.g. %, &, etc..) [Note 1]
GRAI	\d{14}[-!"%&'()*+,./0-9:;<=>?A-Z_a-z]{0,16}	Exactly 14 numeric digits, followed by Minimum 0, Maximum 16 alphanumeric characters restricted to A-Z (uppercase), a-z (lowercase), 0-9, and the special characters listed (e.g. %, &, etc..) [Note 1]
GSRN	\d{18}	Exactly 18 numeric digits

Note 1: The patterns limit constraints to the character set defined in the General Specification, which is a subset of ISO/IEC 646.

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Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
GIAI				The GS1 Identification Key used to identify an Individual Asset. The key comprises a GS1 Company Prefix and Individual Asset Reference.	
Generalization		string			
GINC				The GS1 Identification Key used to identify a logical grouping of logistic or transport units that are assembled to be transported under one transport document (e.g. HWB). The key comprises a GS1 Company Prefix and the Freight Forwarder's or Carrier's transport reference.	
Generalization		string			
GLN				The Global Location Number (GLN) is the GS1 Identification Key used to identify physical locations or parties. The key is comprised of a GS1 Company Prefix, Location Reference, and Check Digit.	
Generalization		string			

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
GRAI				The GS1 Identification Key used to identify Returnable Assets. The key comprises a GS1 Company Prefix, Asset Type, Check Digit, and optional serial number.	
Generalization		string			
GSIN				The GS1 Identification Key used to identify a logical grouping of logistic or transport units that are assembled by the consignor (seller) for a transport Shipment from that consignor to one consignee (buyer) referencing a despatch advice and/or BOL. The key comprises a GS1 Company Prefix, Shipper Reference and Check Digit.	
Generalization		string			
GSRN				The GS1 Identification Key used to identify the relationship between a service provider and service recipient. The key comprises a GS1 Company Prefix, Service Reference, and Check Digit.	
Generalization		string			
GTIN				The GS1 Identification Key used to identify trade items. The key comprises a GS1 Company Prefix, an Item Reference and Check Digit.	
Generalization		string			
SSCC				The GS1 Identification Key used to identify logistics units. The key comprises an Extension digit, GS1 Company Prefix, Serial Reference, and Check Digit.	
Generalization		string			

4.2.3 Additional Key Data Types

Class Diagram
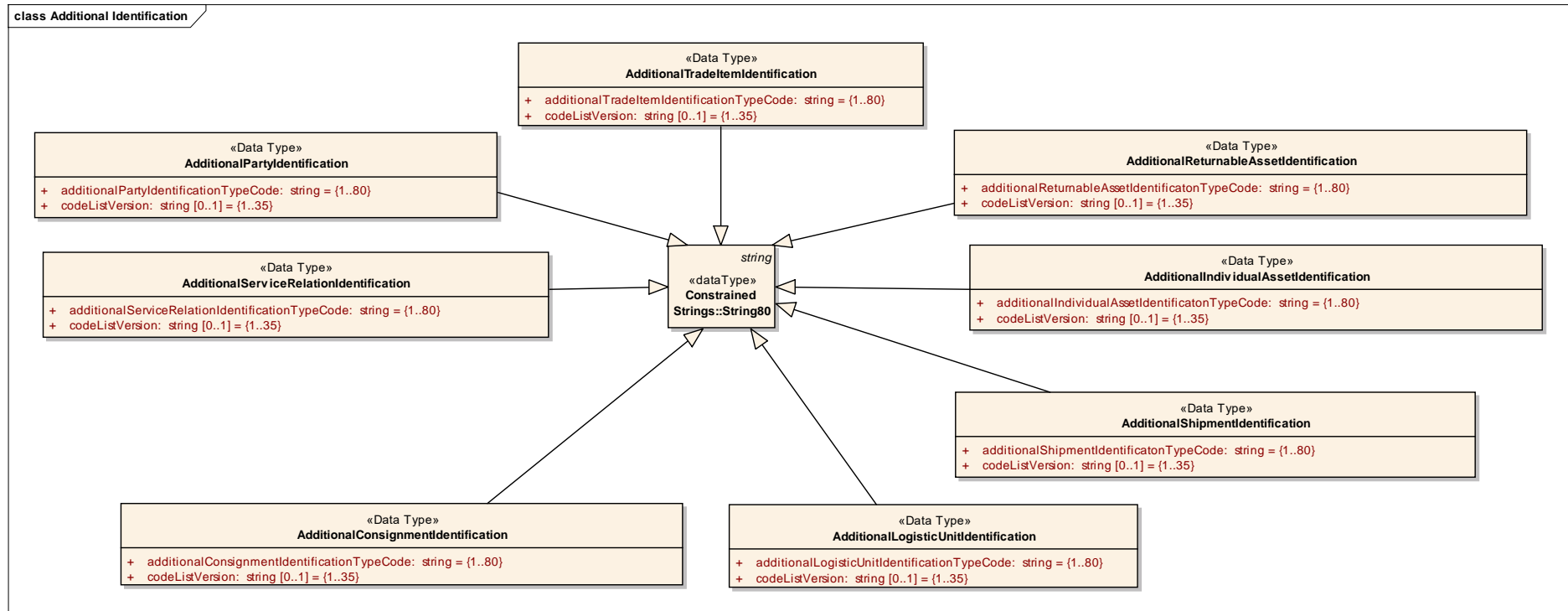
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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalConsignmentIdentification				Additional identification for a consignment.	
Generalization		String80		The identification value.	
Attribute	additionalConsignmentIdentificationTypeCode	string	1..1	The type of additional identification for a consignment.	

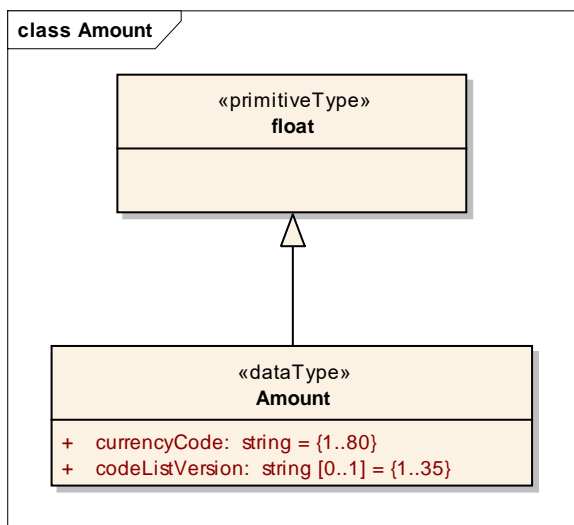| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalIndividualAssetIdentification				Additional identification for an individual asset.	
Generalization		String80		The identification value.	
Attribute	additionalIndividualAssetIdentificatonTypeCode	string	1..1	The type of additional identification for an individual asset.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalLogisticUnitIdentification				Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Generalization		String80		The identification value.	
Attribute	additionalLogisticUnitIdentificationTypeCode	string	1..1	Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalPartyIdentification				A party identifier that is in addition to the GLN.	
Generalization		String80		The identification value	
Attribute	additionalPartyIdentificationTypeCode	string	1..1	Identification of a party by use of a code in addition to the Global Location Number.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalReturnableAssetIdentification				An identifier in addition to the GS1 identifier for a reusable entity owned	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				by a company that is used for transport and storage of goods.	
Generalization		String80		The identification value.	
Attribute	additionalReturnableAssetIdentificatonTypeCode	string	1..1	An identifier in addition to the GS1 identifier for a reusable entity owned by a company that is used for transport and storage of goods.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalServiceRelationIdentification				An identifier in addition to the GS1 identification used to identify the recipient of services in the context of a service relationship.	
Generalization		String80		The identification value.	
Attribute	additionalServiceRelationIdentificationTypeCode	string	1..1	TBD by workgroup	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalShipmentIdentification				An identification in addition to the GS1 identification used to identify a logical grouping of logistic or transport units that are assembled by the consignor (seller) for a transport shipment from that consignor to one consignee (buyer).	
Generalization		String80		The identification value.	
Attribute	additionalShipmentIdentificatonTypeCode	string	1..1	An identification in addition to the GS1 identification used to identify a logical grouping of logistic or transport units that are assembled by the consignor (seller) for a transport shipment from that consignor to one consignee (buyer).	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
AdditionalTradeItemIdentification				Additional Trade Item Identification Data type	
Generalization		String80		The identification value.	
Attribute	additionalTradeItemIdentificationTypeCode	string	1..1	This code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one to one relationship.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	

4.2.4   Amount Data Type

Class Diagram

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Amount				A monetary amount with an associated currency code.	
Generalization		float		The amount value	
Attribute	currencyCode	string	1..1	A code representing the currency of a particular country or group of countries.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	

4.2.5 Description Data Types

Class Diagram
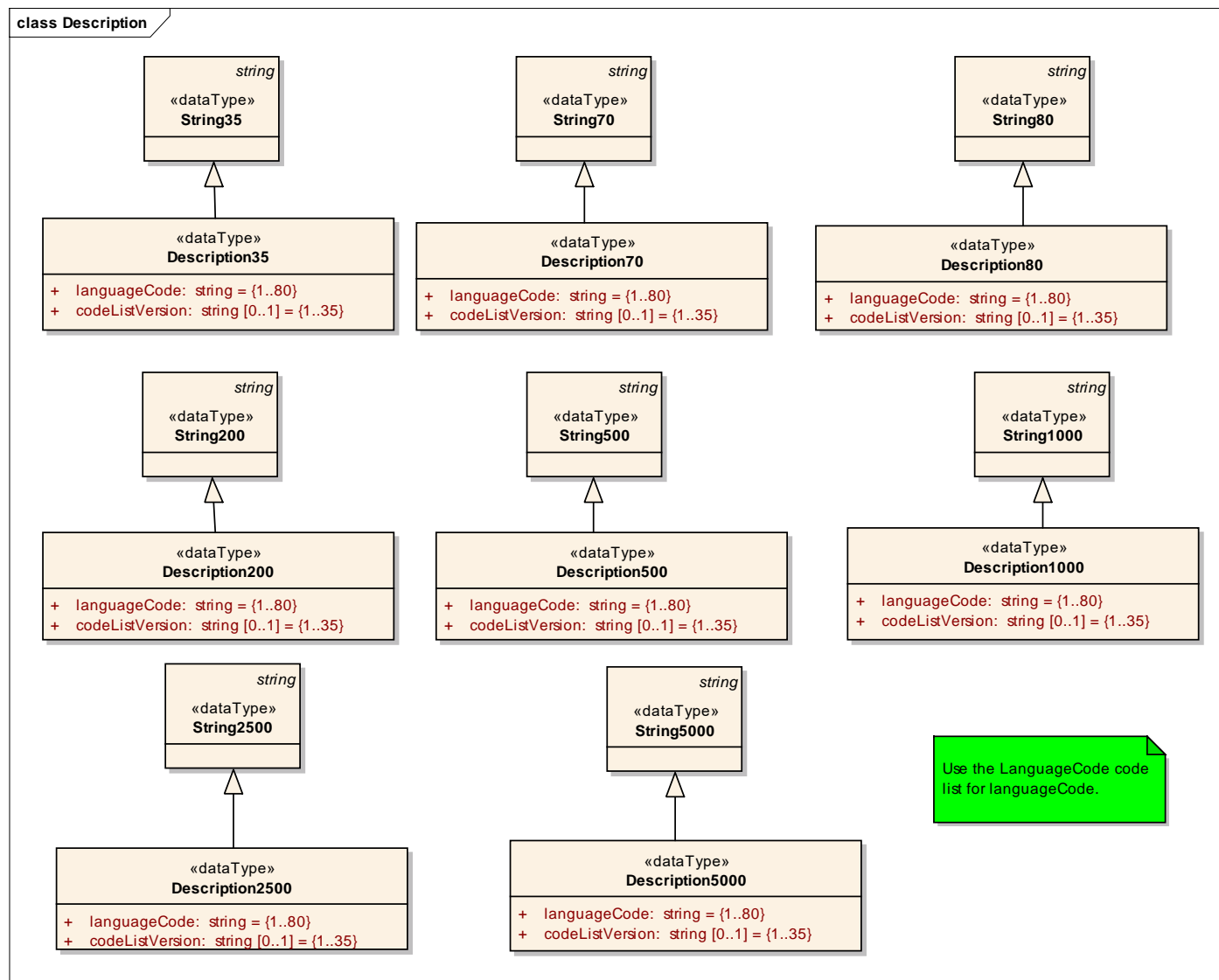
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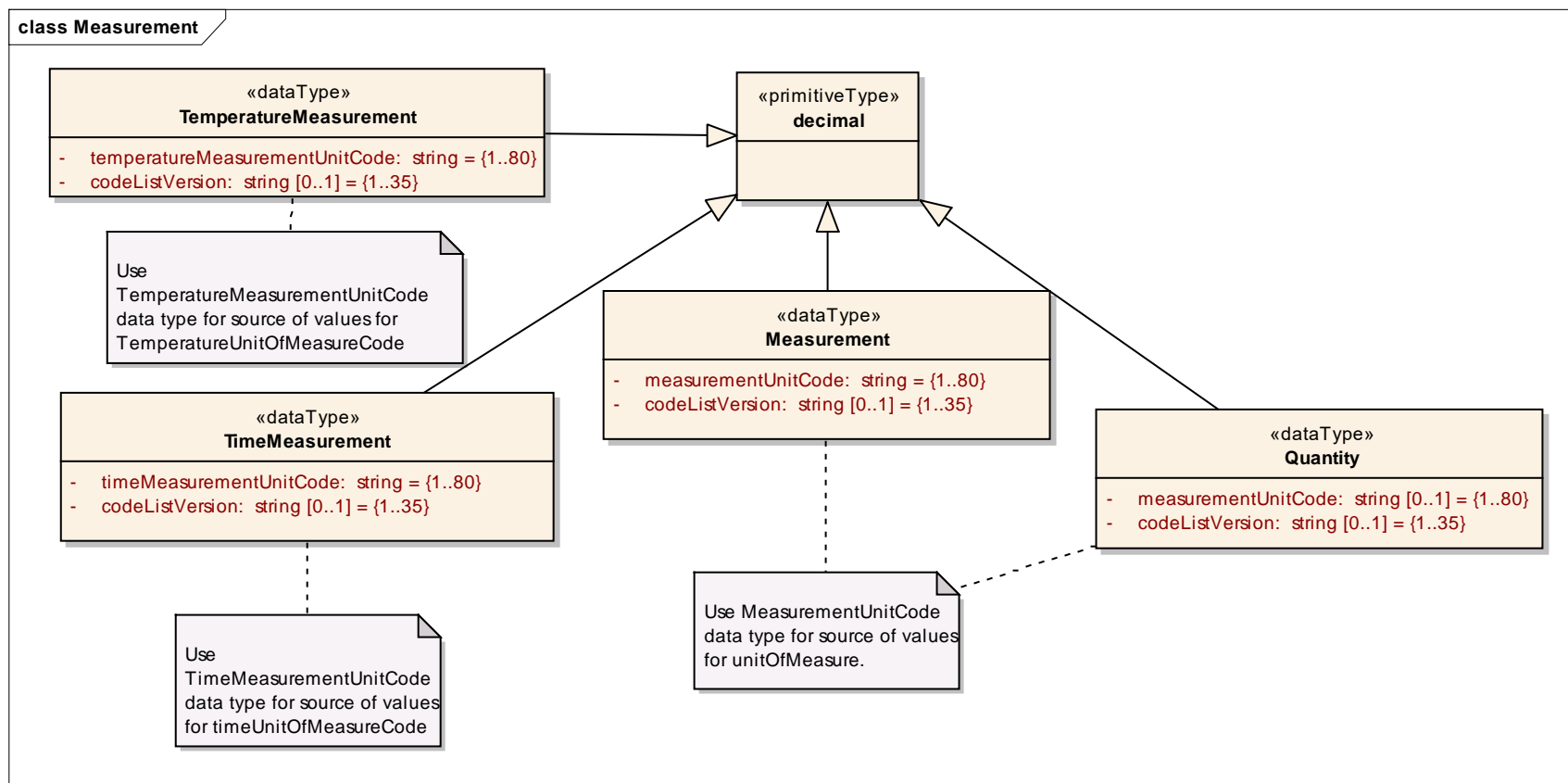| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Description1000				A string of no more than 1000 characters in a specified language.	
Generalization		String1000		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description200				A string of no more than 200 characters in a specified language.	
Generalization		String200		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description2500				A string of no more than 2500 characters in a specified language.	
Generalization		String2500		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description35				A string of no more than 35 characters in a specified language.	
Generalization		String35		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description500				A string of no more than 500 characters in a specified language.	
Generalization		String500		The description value	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description5000				A string of no more than 5000 characters in a specified language.	
Generalization		String5000		The description value.	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description70				A string of no more than 70 characters in a specified language.	
Generalization		String70		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Description80				A string of no more than 80 characters in a specified language.	
Generalization		String80		The description value	
Attribute	languageCode	string	1..1	A code representing the language used in the description.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	

4.2.6 Measurement and Quantity Data Types

Class Diagram

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Measurement				Provides measurement value and an associated unit of measure code.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		decimal		The Measurement Value.	
Attribute	measurementUnitCode	string	1..1	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
Quantity				Provides quantity value and an associated unit of measure code.	
Generalization		decimal		The Quantity Value.	
Attribute	measurementUnitCode	string	0..1	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
TemperatureMeasurement				Provides temperature measurement value and associated unit of measure code.	
Generalization		decimal		The Temperature Measurement Value	
Attribute	temperatureMeasurementUnitCode	string	1..1	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
TimeMeasurement				Provides time measurement value and an associated unit of measure code.	
Generalization		decimal		The Time Measurement Value	
Attribute	timeMeasurementUnitCode	string	1..1	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	

4.3 Code Data Types
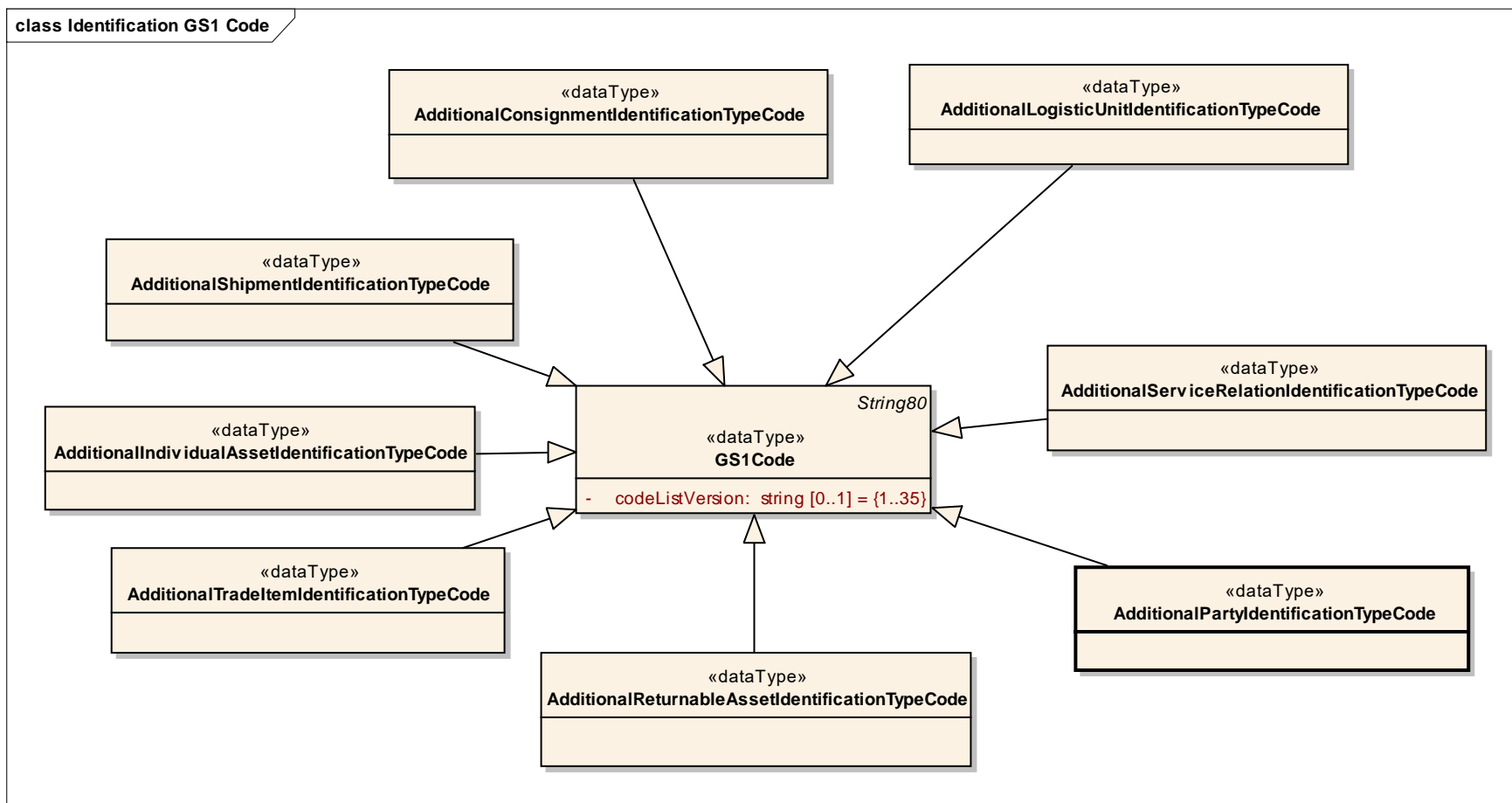
4.3.1 Code and GS1 Code Data Types

Class Diagram

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Code				Generic code data type not linked to a specific code list. Besides the code value the code data type allows to specify additional information such as the responsible code list agency and the code list identification.	
Generalization		String80			
Attribute	codeDescription	string	0..1	A description for the code value provided.	
Attribute	codeListAgencyCode	string	0..1	A code representing the agency which manages the code list for example 5 for ISO.	
Attribute	codeListAgencyCodeListVersion	string	0..1	The snapshot of the Code List Agency code list at a certain point in time.	
Attribute	codeListAgencyName	string	0..1	A name of the agency which manages the code list for example ISO.	
Attribute	codeListName	string	0..1	The name of the code list which provides the code value.	
Attribute	codeListURI	string	0..1	A string that refers to the location of the code list which provides the code value.	
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	
GS1Code				Generic code data type not linked to a specific code list. Besides the code value the GS1 code data type allows to specify the code list version.	
Generalization		String80			
Dependency		Code			
Attribute	codeListVersion	string	0..1	The snapshot of the code list at a certain point in time.	

4.3.2   Additional Identification Code Data Types
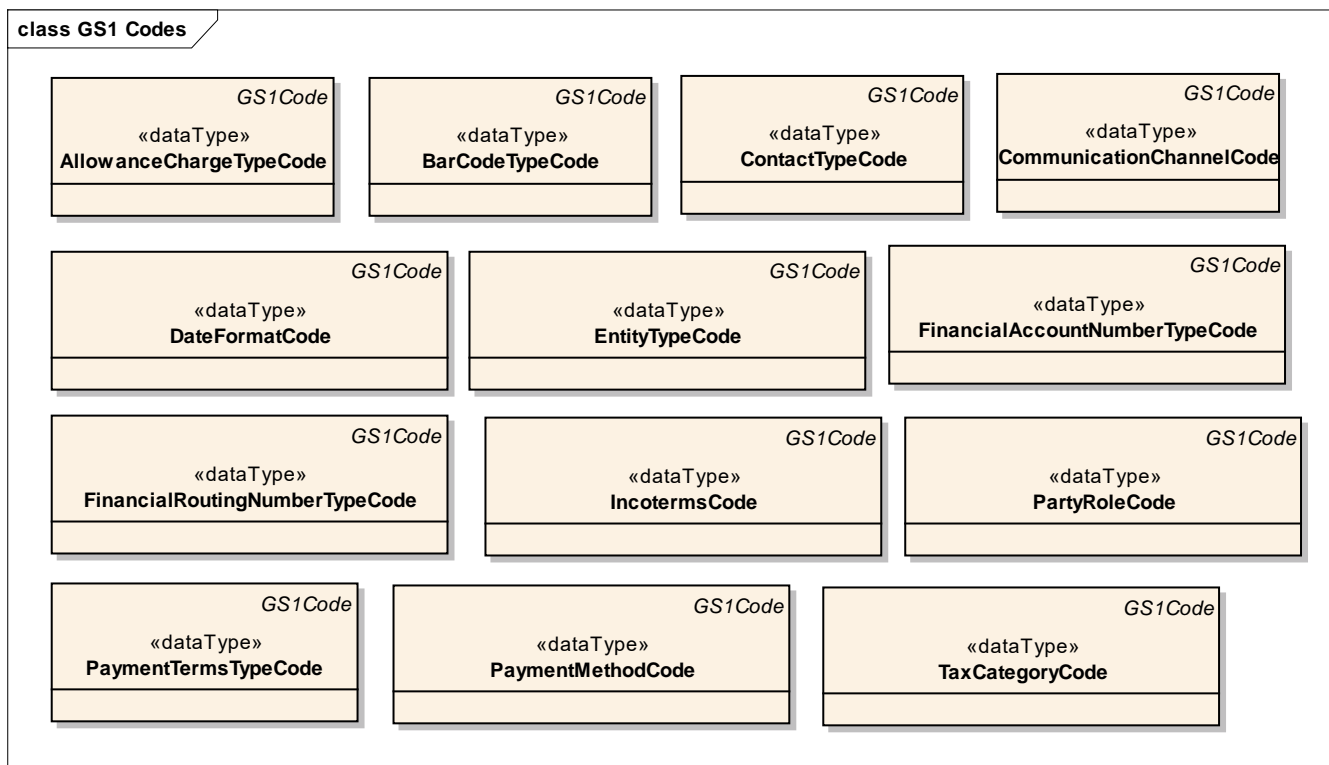
Class Diagram

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalConsignmentIdentificationType Code				Code specifying an additional consignment identification type. Allowed code values are specified in GS1 Code List AdditionalConsignmentIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalDocumentIdentificationTypeCo de				Code specifying an additional document identification type. Allowed code values are specified in GS1 Code List AdditionalDocumentIdentificationTypeCode.	
AdditionalIndividualAssetIdentificationTy peCode				Code specifying an additional individual asset identification type. Allowed code values are specified in GS1 Code List AdditionalIndividualAssetIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalLogisticUnitIdentificationTypeC ode				Code specifying a additional logistic unit identification type. Allowed code values are specified in GS1 Code List AdditionalLogisticUnitIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalPartyIdentificationTypeCode				Code specifying a additional party identification type. Allowed code values are specified in GS1 Code List AdditionalPartyIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalReturnableAssetIdentificationT ypeCode				Code specifying an additional returnable asset identification type. Allowed code values are specified in GS1 Code List AdditionalReturnableAssetIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalServiceRelationIdentificationTy peCode				Code specifying an additional individual service relation identification type. Allowed code values are specified in GS1 Code List AdditionalServiceRelationIdentificationTypeCode.	
Generalization		GS1Code			

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalShipmentIdentificationTypeCode				Code specifying an additional shipment identification type. Allowed code values are specified in GS1 Code List AdditionalShipmentIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalTradeItemIdentificationTypeCode				Code specifying an additional trade item identification type. Allowed code values are specified in GS1 Code List AdditionalTradeItemIdentificationTypeCode.	
Generalization		GS1Code			

4.3.3   GS1 Code Data Types

Class Diagram

GDD Report

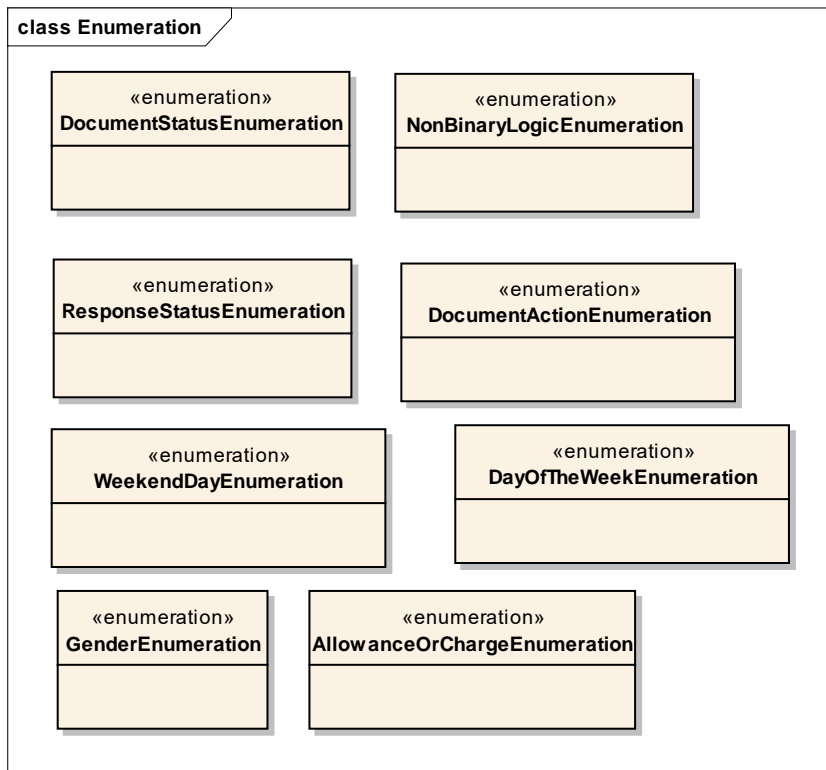| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AllowanceChargeTypeCode				Code specifying a type of allowance or charge. Allowed code values are specified in GS1 Code List AllowanceChargeTypeCode.	
Generalization		GS1Code			

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
BarCodeTypeCode				Code specifying a bar code type. Allowed code values are specified in GS1 Code List BarCodeTypeCode.	
Generalization		GS1Code			
CommunicationChannelCode				Code specifying a communication channel. Allowed code values are specified in GS1 Code List CommunicationChannelCode.	
Generalization		GS1Code			
ContactTypeCode				Code specifying a contact type. Allowed code values are specified in GS1 Code List ContactTypeCode.	
Generalization		GS1Code			
DateFormatCode				Code specifying a date format. Allowed code values are specified in GS1 Code List DateFormatCode.	
Generalization		GS1Code			
EntityTypeCode				Code specifying an entity type. Allowed code values are specified in GS1 Code List EntityTypeCode.	
Generalization		GS1Code			
FinancialAccountNumberTypeCode				Code specifying a financial account number type. Allowed code values are specified in GS1 Code List FinancialAccountNumberTypeCode.	
Generalization		GS1Code			
FinancialRoutingNumberTypeCode				Code specifying a financial routing number type. Allowed code values are specified in GS1 Code List FinancialRoutingNumberTypeCode.	
Generalization		GS1Code			

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
IncotermsCode				Code specifying delivery terms in accordance with the Internal Commercial Terms (Incoterms). Allowed code values are specified in GS1 Code List IncotermsCode.	
Generalization		GS1Code			
PaymentTermsTypeCode				Code specifying a payment terms type. Allowed code values are specified in GS1 Code List PaymentTermsTypeCode.	
Generalization		GS1Code			
TaxCategoryCode				Code specifying a tax category. Allowed code values are specified in GS1 Code List TaxCategoryCode.	
Generalization		GS1Code			
PaymentMethodCode				Code specifying a payment method. Allowed code values are specified in GS1 Code List Payment MethodCode.	
Generalization		GS1Code			
PartyRoleCode				Code specifying a party role. Allowed code values are specified in GS1 Code List PartyroleCode.	
Generalization		GS1Code			

4.3.4   Enumerations

Class Diagram

4.3.5   ISO Code Data Types

Class Diagram
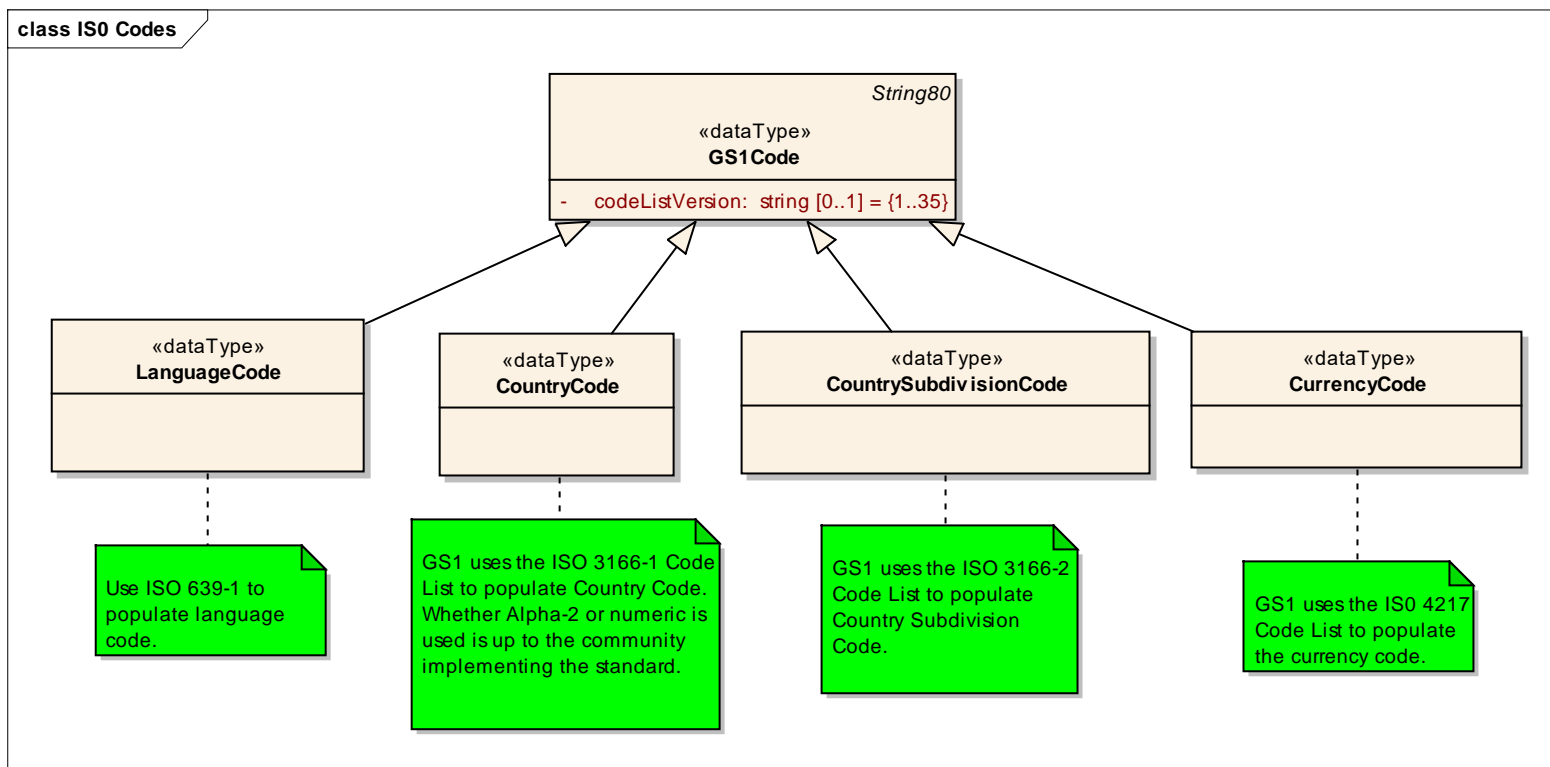
GDD report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CountryCode				Code specifying a country. Allowed code values are specified in GS1 Code List CountryCode.	
Generalization		GS1Code			
CountrySubdivisionCode				Code specifying a country subdivision. Allowed code values are specified in GS1 Code List CountrySubdivisionCode.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Generalization		GS1Code			
CurrencyCode				Code specifying a currency. Allowed code values are specified in GS1 Code List CurrencyCode.	
Generalization		GS1Code			
LanguageCode				Code specifying a language. Allowed code values are specified in GS1 Code List LanguageCode.	
Generalization		GS1Code			

4.3.6   UN Code Data Types

Class Diagram
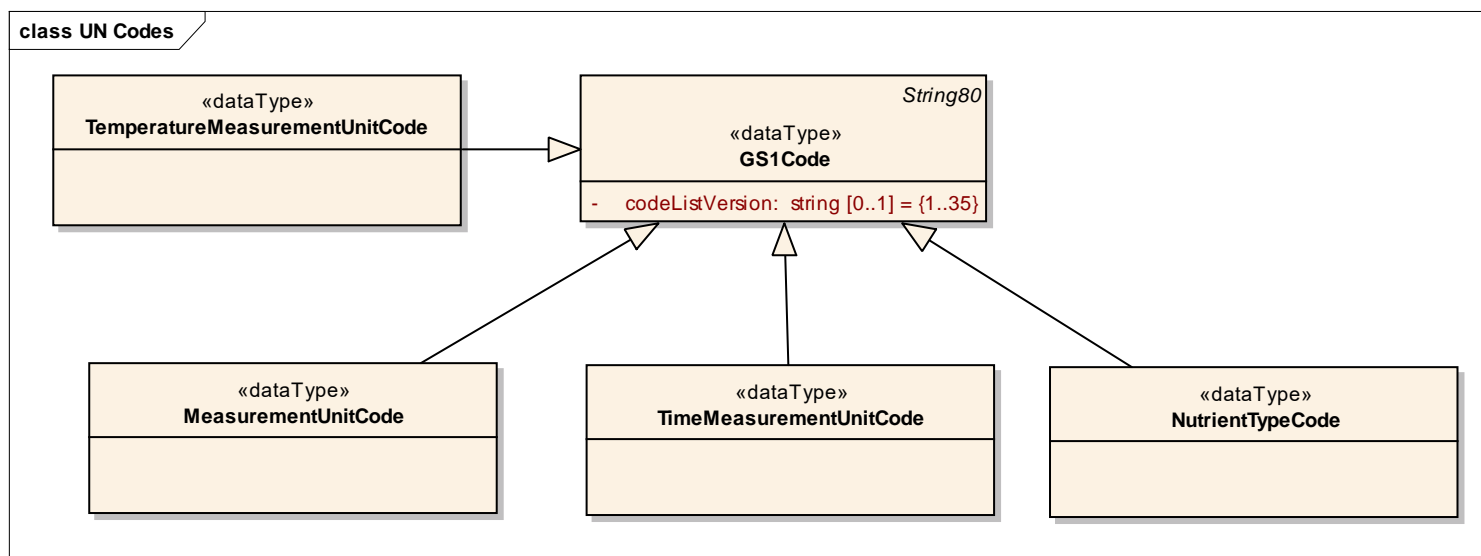
GDD report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeasurementUnitCode				Code specifying a unit of measure. Allowed code values are specified in GS1 Code List MeasurementUnitCode.	
Generalization		GS1Code			
TemperatureMeasurementUnitCode				Code specifying a temperature unit of measure. Allowed code values are specified in GS1 Code List TemperatureMeasurementUnitCode.	
Generalization		GS1Code			
TimeMeasurementUnitCode				Code specifying a time unit of measure. Allowed code values are specified in GS1 Code List TimeMeasurementUnitCode.	
Generalization		GS1Code			
NutrientTypeCode				Code specifying a nutrient type. Allowed code values are specified in GS1 Code List NutrientTypeCode.	
Generalization		GS1Code			

4.3.7 Additional Trade Item Classification Code

Class Diagram

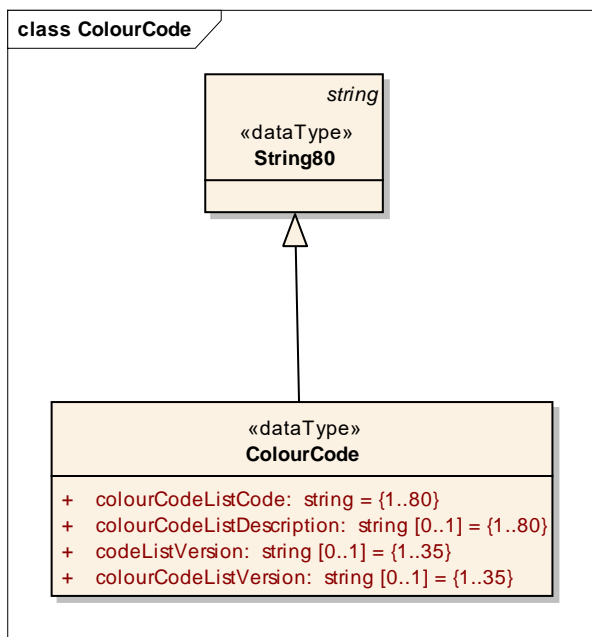**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalTradeItemClassificationCode				Code specifying an additional trade item classification other than the GS1 Global Product Classification. The applied classification scheme is specified as additional information together with the classification value.	
Generalization		String80		Category code based on additional classification scheme provided in addition to Global Product Classification	
Attribute	additionalTradeItemClassificationCodeListCode	string	1..1	Code specifying the applied additional trade item classification scheme. Allowed values are specified in GS1 code list AdditionalTradeItemClassificationCodeListCode.	
Attribute	additionalTradeItemClassificationCodeListVersion	string	0..1	The version number of the GS1 code list AdditionalTradeItemClassificationCodeListCode.	
Attribute	codeDescription	string	0..1	A description for the code value provide by GS1.	
Attribute	codeListVersion	string	0..1	The version of the applied additional trade item classification scheme.	

4.3.8 Colour Code

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ColourCode				A code depicting the colour of an object according to a specific code list. The applied code list is specified as additional information together with the colour code.	
Generalization		String80			
Attribute	colourCodeListCode	string	1..1	Code specifying a colour code list. Allowed code values are specified in GS1 Code List ColourCodeListCode.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	colourCodeListDescription	string	0..1	A description of the colour code list used to populate the colour code, for example National Retail Federation – Standard Colour & Size Codes.	
Attribute	codeListVersion	string	0..1	The version of the applied colour code list.	
Attribute	colourCodeListVersion	string	0..1	The version of the ColourCodeListCode code list.	

4.3.9   Responsible Agency Code

Class Diagram
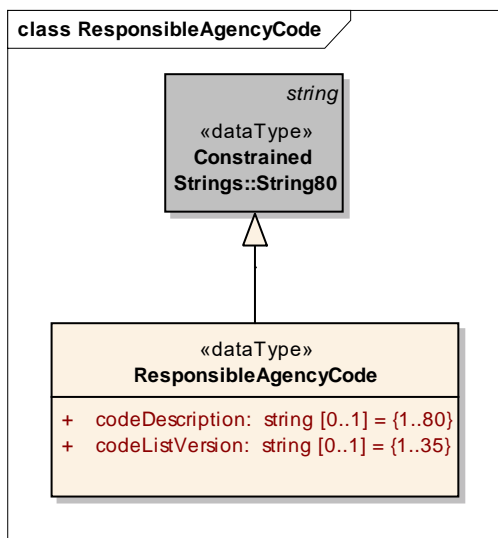
GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ResponsibleAgencyCode				Code specifying a responsible agency. Allowed code values are specified in GS1 Code List ResponsibleAgencyCode.	
Generalization		String80			
Attribute	codeDescription	string	0..1	A description of the code.	
Attribute	codeListVersion	string	0..1	The version of the code list.	

4.3.10 Size Code

Class Diagram
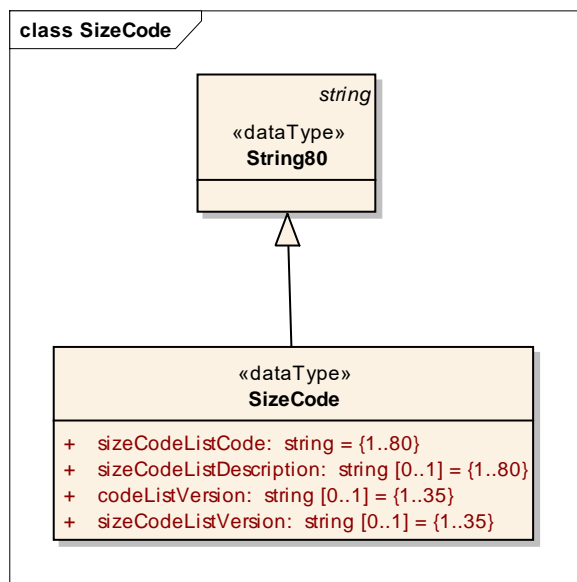
GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
SizeCode				A code depicting the size of an object according to a specific code list. The applied code list is specified as additional information together with the size code.	
Generalization		String80		A code depicting the size of an object according to a specified list of code	
Attribute	sizeCodeListCode	string	1..1	Code specifying a size code list. Allowed code values are specified in GS1 Code List SizeCodeListCode.	
Attribute	sizeCodeListDescription	string	0..1	A description of the size code list used to populate the size code for example National Retail Federation – Standard Colour & Size Codes	
Attribute	codeListVersion	string	0..1	The version of the applied size code list.	
Attribute	sizeCodeListVersion	string	0..1	The version of the SizeCodeListCode code list.	

4.4 Components

4.4.1 GS1 Identification Components

Class Diagram
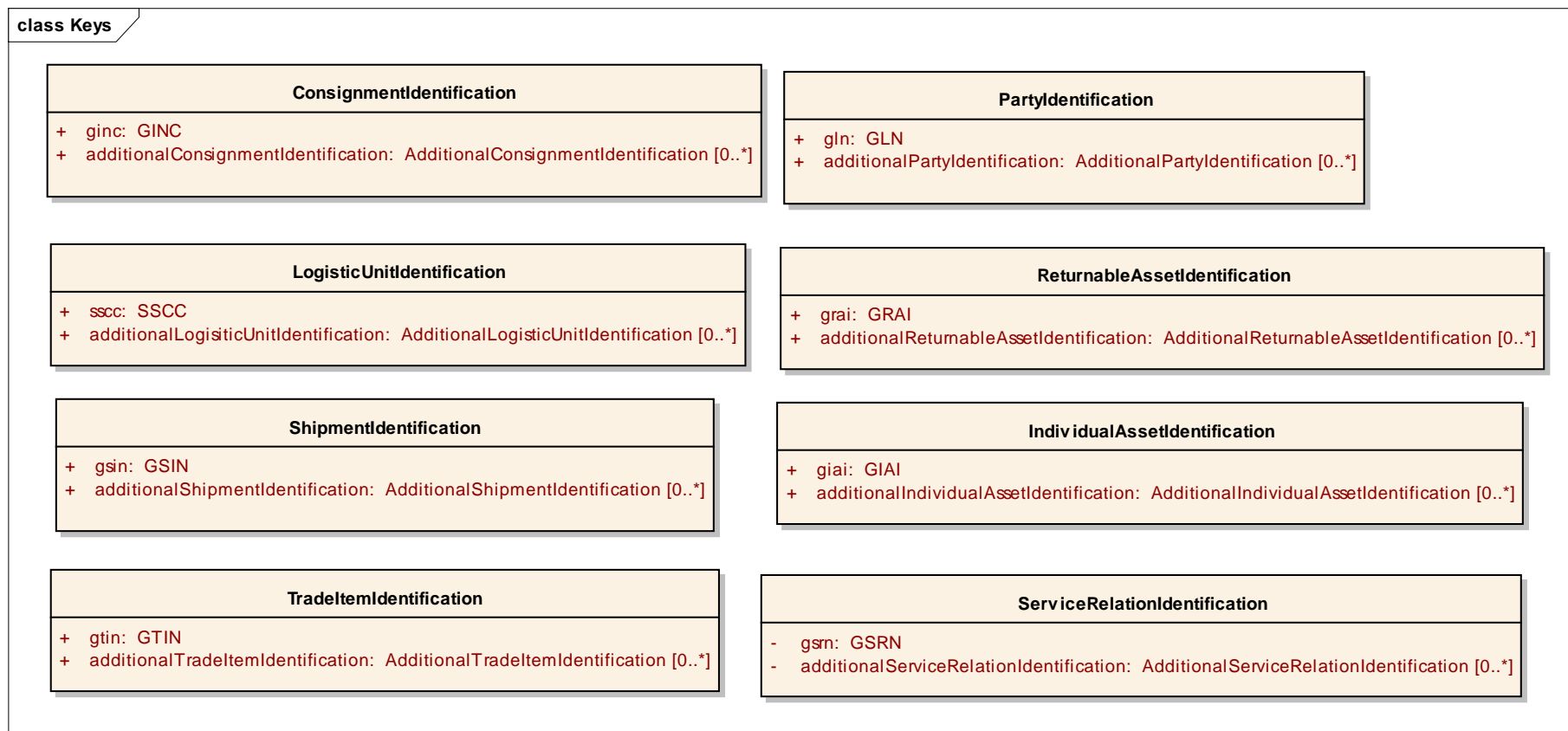
GDD Report

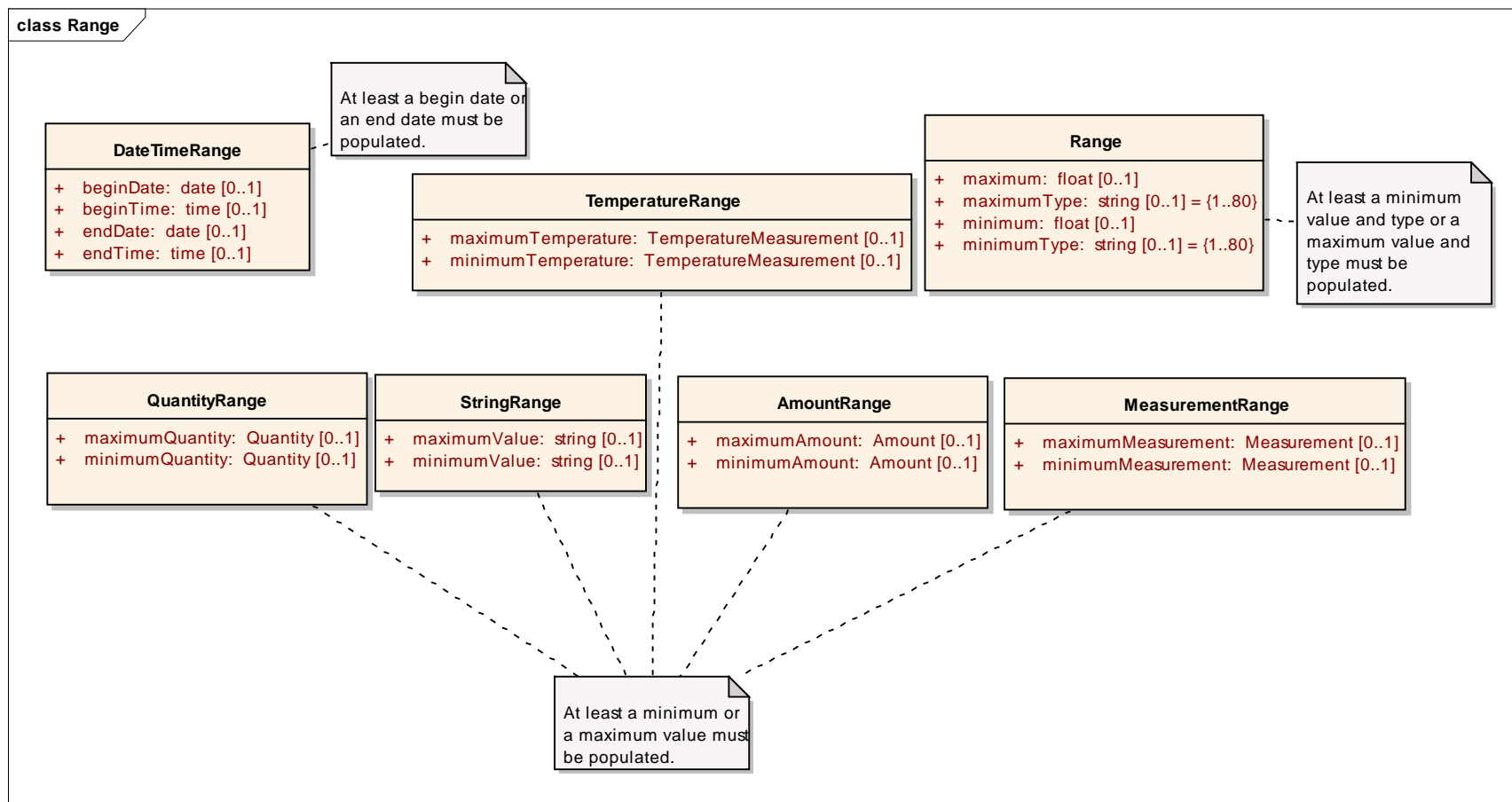| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ConsignmentIdentification				Information used to identify a consignment.	
Attribute	ginc	GINC	1..1	Global Identification Number for Consignment (GINC), the GS1 key used for the identification of consignments.	
Attribute	additionalConsignmentIdentification	AdditionalConsignmentIdentification	0..*	Additional identification key used to identify a consignment.	
IndividualAssetIdentification				Information used to identify an asset.	
Attribute	giai	GIAI	1..1	Global Individual Asset Identifier (GIAI), the GS1 key used for the identification of individual assets.	
Attribute	additionalIndividualAssetIdentification	AdditionalIndividualAssetIdentification	0..*	Identifier of the asset, specified in addition to the GIAI.	
LogisticUnitIdentification				The globally unique identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Attribute	sscc	SSCC	1..1	Serial Shipping Container Code (SSCC), the GS1 key used for the identification of logistic units.	
Attribute	additionalLogisiticUnitIdentification	AdditionalLogisticUnitIdentification	0..*	Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
PartyIdentification				Information used to identify a party or location.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	gln	GLN	1..1	Global Location Number (GLN), the GS1 key used for the identification of parties and locations.	
Attribute	additionalPartyIdentification	AdditionalPartyIdentification	0..*	Identifier of the party or location, specified in addition to the GLN.	
ReturnableAssetIdentification				Information used to identify a returnable asset.	
Attribute	grai	GRAI	1..1	Global Returnable Asset Identifier (GRAI), the GS1 key used for the identification of returnable assets.	
Attribute	additionalReturnableAssetIdentification	AdditionalReturnableAssetIdentification	0..*	The additional identification Key used to identify returnable assets.	
ServiceRelationIdentification				Information used to identify a service relation.	
Attribute	gsrn	GSRN	1..1	Global Service Relation Number (GSRN), the GS1 key used for the identification of relationships between service providers and service recipients.	
Attribute	additionalServiceRelationIdentification	AdditionalServiceRelationIdentification	0..*	The additional key used to identify the relationship between a service provider and service recipient.	
ShipmentIdentification				Information used to identify a shipment.	
Attribute	gsin	GSIN	1..1	Global Shipment Identification Number (GSIN), the GS1 key	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				used for the identification of shipments.	
Attribute	additionalShipment Identification	AdditionalShipmentIdentification	0..*	Additional identification key used to identify a shipment.	
TradeItemIdentification				Provides the GTIN as the unique identifier for the item and optionally additional formats of non GTIN identifiers for the item.	
Attribute	gtin	GTIN	1..1	Global Trade Item Number (GTIN), the GS1 key used for the identification of trade items.	
Attribute	additionalTradeIte mIdentification	AdditionalTradeItemIdentification	0..*	Alternative means to the Global Trade Item Number to identify a trade item.	

4.4.2 Range components

Class Diagram

GDD Report

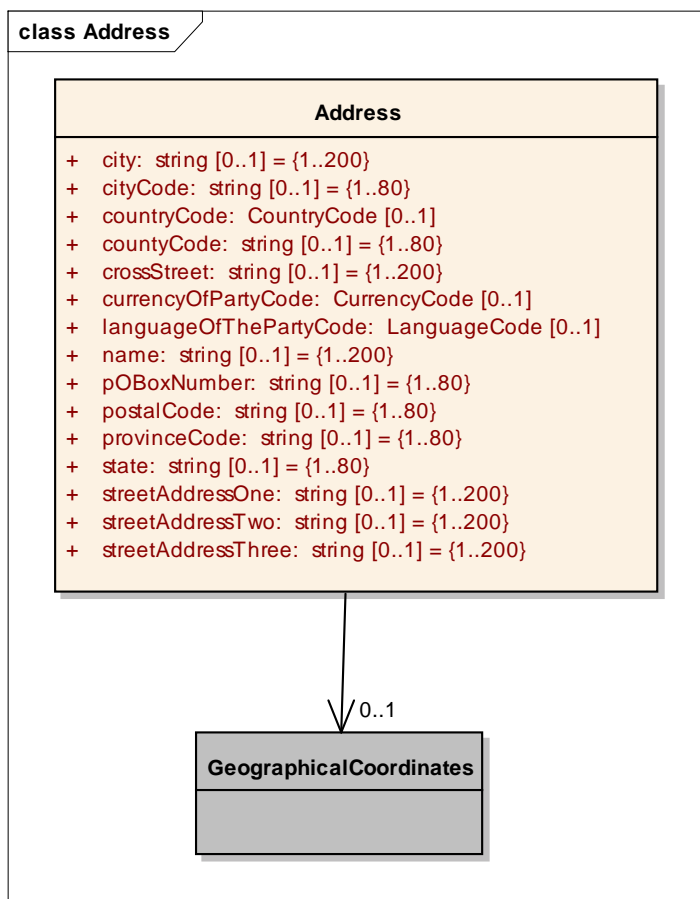| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AmountRange				Provides the difference or interval between the minimum and maximum value amount including the associated currency.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	maximumAmount	Amount	0..1	Defines the upper limit required to qualify for the amount.	
Attribute	minimumAmount	Amount	0..1	Defines the lower limit required to qualify for the amount.	
DateTimeRange				Provides the difference or interval between the begin date/time and end date/time.	
Attribute	beginDate	date	0..1	Date specifying the first day for the date time range.	
Attribute	beginTime	time	0..1	Time specifying the start time for the date time range.	
Attribute	endDate	date	0..1	Date specifying the last day for the date time range.	
Attribute	endTime	time	0..1	Time specifying the end time for the date time range.	
MeasurementRange				Provides the difference or interval between the minimum and maximum measurement including the associated unit of measure.	
Attribute	maximumMeasurement	Measurement	0..1	Specifies the upper limit of the measurement range.	
Attribute	minimumMeasurement	Measurement	0..1	Specifies the lower limit of the measurement range.	
QuantityRange				Provides the difference or interval between the minimum and maximum value which may include the associated unit of measure.	
Attribute	maximumQuantity	Quantity	0..1	Specifies the upper limit of the quantity range.	
Attribute	minimumQuantity	Quantity	0..1	Specifies the lower limit of the quantity range.	
Range				Provides the difference or interval between the minimum and maximum value.	
Attribute	maximum	float	0..1	Specifies the upper limit of the quantity range.	
Attribute	maximumType	string	0..1	Identifies the type of measurement the range is expressed in.	
Attribute	minimum	float	0..1	Specifies the lower limit of the quantity range.	
Attribute	minimumType	string	0..1	A code that identifies the unit of measure of the range lower limit.	
StringRange				Provides the difference or interval between a minimum and maximum text value.	
Attribute	maximumValue	string	0..1	Specifies the upper limit of the string range.	
Attribute	minimumValue	string	0..1	Specifies the lower limit of the string range.	
TemperatureRange				Provides the difference or interval between the minimum and maximum temperature.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	maximumTemperature	TemperatureMeasurement	0..1	Specifies the upper limit of the temperature range.	
Attribute	minimumTemperature	TemperatureMeasurement	0..1	Specifies the lower limit of the temperature range.	

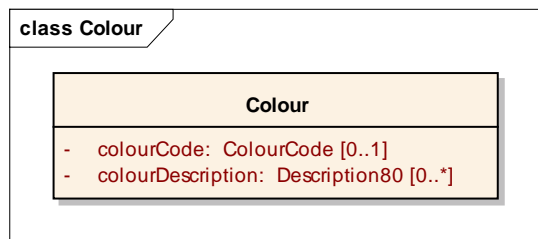### 4.4.3   Address

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Address				The location at which a particular organization or person may be found or reached.	
Association		GeographicalCoordinates	0..1	Geographical coordinates for the address.	
Attribute	city	string	0..1	Text specifying the name of the city.	
Attribute	cityCode	string	0..1	Identifier for a city, expressed as a short code rather than the full name	
Attribute	countryCode	CountryCode	0..1	Code specifying the country for the address.	
Attribute	countyCode	string	0..1	A code that identifies a county. A county is a territorial division in some countries, forming the chief unit of local administration. In the US, a county is a political and administrative division of a state.	
Attribute	crossStreet	string	0..1	A street intersecting a main street (usually at right angles) and continuing on both sides of it	
Attribute	currencyOfPartyCode	CurrencyCode	0..1	Code specifying the currency of an addressed party.	
Attribute	languageOfThePartyCode	LanguageCode	0..1	Code specifying the language of an addressed party.	
Attribute	name	string	0..1	The name of the party expressed in text.	
Attribute	pOBoxNumber	string	0..1	The number that identifies a PO box. A PO box is a box in a post office or other postal service location assigned to an organization where postal items may be kept.	
Attribute	postalCode	string	0..1	Text specifying the postal code for an address.	
Attribute	provinceCode	string	0..1	Text specifying a province in abbreviated format.	
Attribute	state	string	0..1	One of the constituent units of a nation having a federal government.	
Attribute	streetAddressOne	string	0..1	The first free form line of an address, This first part is printed on paper as the first line below the name. For example, the name of the street and the number in the street or the name of a building.	
Attribute	streetAddressTwo	string	0..1	The second free form line of an address, This second part is printed on paper as the second line below the name. The second free form line complements the first free form line to locate the party e.g. floor number, name of a building, suite number.	
Attribute	streetAddressThree	string	0..1	The third free form line of an address. This third part is printed on paper as the third line below the name. The third free form line complements the first and second free form lines where necessary.	

4.4.4 Colour

Class Diagram

```
class Colour

        Colour

-   colourCode:  ColourCode [0..1]
-   colourDescription:  Description80 [0..*]
```

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multip licity	Definition	Requirements
Colour				Information specifying a colour in text and / or coded format.	
Attribute	colourCode	ColourCode	0..1	Information specifying a colour in text and / or coded format.	
Attribute	colourDescription	Description80	0..*	A description of a colour of an object.	

4.4.5 Communication Channel

Class Diagram
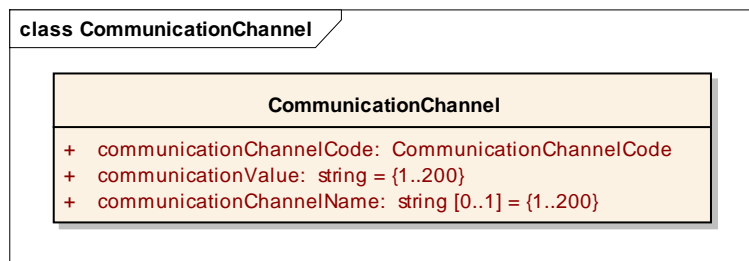
```
class CommunicationChannel

        CommunicationChannel

+   communicationChannelCode:  CommunicationChannelCode
+   communicationValue:  string = {1..200}
+   communicationChannelName:  string [0..1] = {1..200}
```

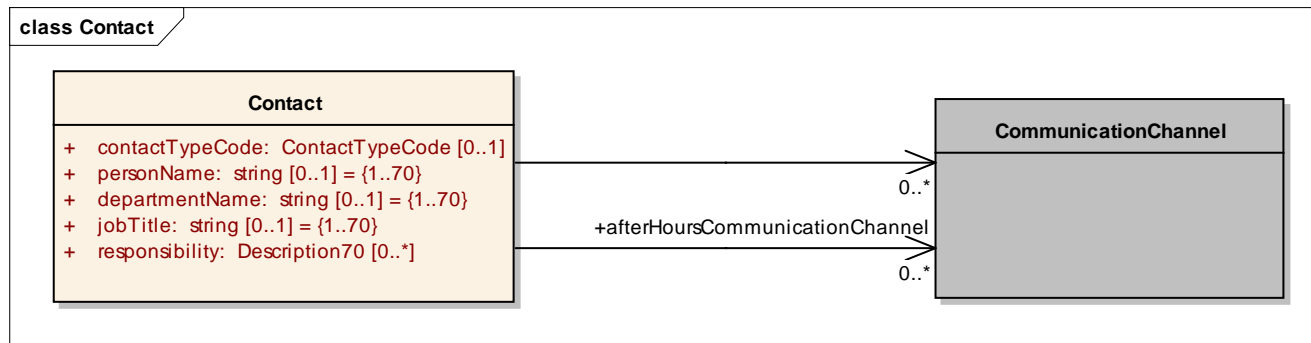**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CommunicationChannel				The channel or manner in which a communication can be made, such as telephone or email.	
Attribute	communicationChannelCode	CommunicationChannelCode	1..1	Code specifying the type of communication channel, for example TELEPHONE.	
Attribute	communicationValue	string	1..1	Text identifying the endpoint for the communication channel, for example a telephone number or an e-mail address.	
Attribute	communicationChannelName	string	0..1	The name of a specific communication channel for example Facebook, Twitter, etc.	

4.4.6   Contact

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Contact				Information on an individual or department acting as point of contact for an organisation.	
Association		CommunicationChannel	0..*	The channel or manner in which a communication can be made with the contact, such as telephone or email.	

Association	afterHoursCommunicationChannel	CommunicationChannel	0..*	The channel or manner in which a communication can be made with the contact after regular office hours.	
Attribute	contactTypeCode	ContactTypeCode	0..1	A code determining the role of the contact for example Dangerous Goods 24 Hour Contact.	
Attribute	personName	string	0..1	The name of the individual that can be contacted to provide additional information	
Attribute	departmentName	string	0..1	The nameof the department that can be contacted to provide additional information	
Attribute	jobTitle	string	0..1	The job title of the person that can be contacted	
Attribute	responsibility	Description70	0..*	Text further specifying the area of responsibility of the trade contact	

4.4.7   Currency Exchange Rate Information

Class Diagram


```
class Currency Exchange Rate Information

        CurrencyExchangeRateInformation

+   currencyConversionFromCode:  CurrencyCode
+   currencyConversionToCode:  CurrencyCode
+   exchangeRate:  Float [0..1]
+   exchangeRateDateTime:  dateTime [0..1]
```

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
CurrencyExchange RateInformation				Provides the currency exchange rate information. Rate at which one currency may be converted into another. Generally, one unit of the home currency is expressed in terms of another currency. For example, a North American bank may quote the exchange rate between the dollar and the Euro as the number of dollars needed to buy one Euro.	

Content	Attribute / Role	Datatype /Secondary class	Mul tipli city	Definition	Requirements
Attribute	currencyConversionFromCode	CurrencyCode	1..1	ISO Code for the currency from which an amount is converted	
Attribute	currencyConversionToCode	CurrencyCode	1..1	ISO Code for the currency to which an amount is converted	
Attribute	exchangeRate	float	0..1	The price of one currency in terms of another, that is, the number of units of one currency that may be exchanged for one unit of another currency.	
Attribute	exchangeRateDateTime	dateTime	0..1	The date as of which the currency exchange rate is valid.	

4.4.8   Date Optional Time

Class Diagram
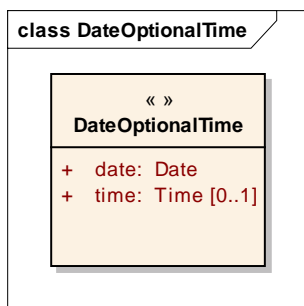
GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DateOptionalTime				Provides a date with the optional ability to provide a time.	
Attribute	date	date	1..1	The specification of a day as calendar date.	
Attribute	time	time	0..1	The specification of a point in time during the day.	

4.4.9   Dimension

Class Diagram
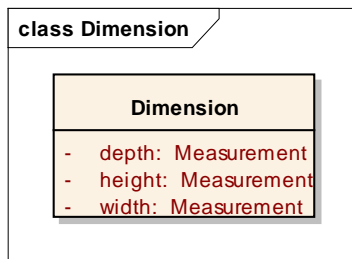
Dimension

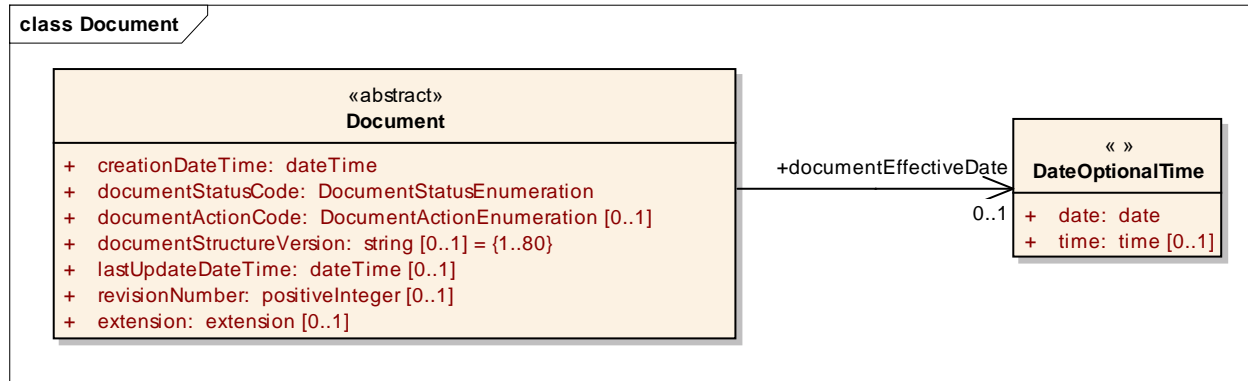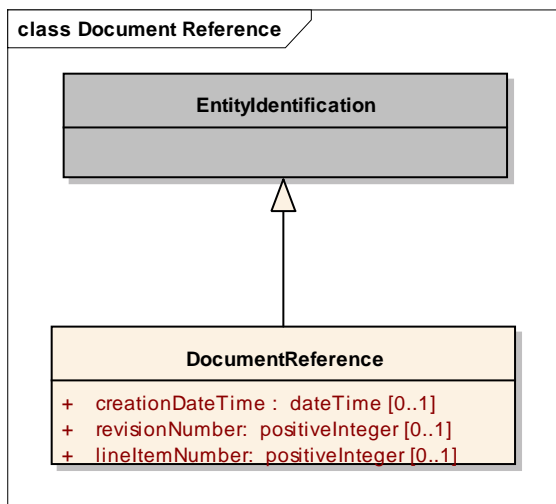| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Dimension				Provides the length, width, and depth of an item with their associated unit of measure.	
Attribute	depth	Measurement	1..1	Measurement of the distance between the front and the back.	
Attribute	height	Measurement	1..1	The vertical dimension from the lowest extremity to the highest extremity.	
Attribute	width	Measurement	1..1	The measurement of the extent of something from side to side. Width is the measurement from left to right.	

4.4.10 Document

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Document				Used to specify basic information about the content of the message including version number, creation date and time.	
Attribute	creationDateTime	dateTime	1..1	Date and time when the document was created.	
Attribute	documentStatusCode	DocumentStatusEnumeration	1..1	Indicates if the document is a copy or an original.	
Attribute	documentActionCode	DocumentActionEnumeration	0..1	Code specifying the action to be taken in the system of the recipient using the information in the document.	
Attribute	documentStructureVersion	string	0..1	Specification of the version of the standard on which the structure of the document is based, for example 3.0.	
Attribute	lastUpdateDateTime	dateTime	0..1	Date and time when the document was last updated.	
Attribute	revisionNumber	positiveInteger	0..1	Number to be used for identification and referencing of subsequent updates to a business document.	WR 12-153
Association	documentEffectiveDate	DateOptionalTime	0..1	The date that the document becomes effective from commercial or legal point of view.	WR 12-265

Extension		extension	0..1	Extension point for inclusion of additional information through an extension to the document.	

4.4.11 Document Reference

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DocumentReference				Information identifying a document and potentially a line within the document for referencing purposes.	
Generalization		EntityIdentification		Identification of the referenced business document.	
Attribute	creationDateTime	dateTime	0..1	Date and time of creation of the referenced document.	
Attribute	revisionNumber	positiveInteger	0..1	Number to be used for identification and referencing of subsequent updates to a business document.	WR 12-153
Attribute	lineItemNumber	positiveInteger	0..1	Number specifying a line in the referenced document.	

4.4.12 Entity Identification
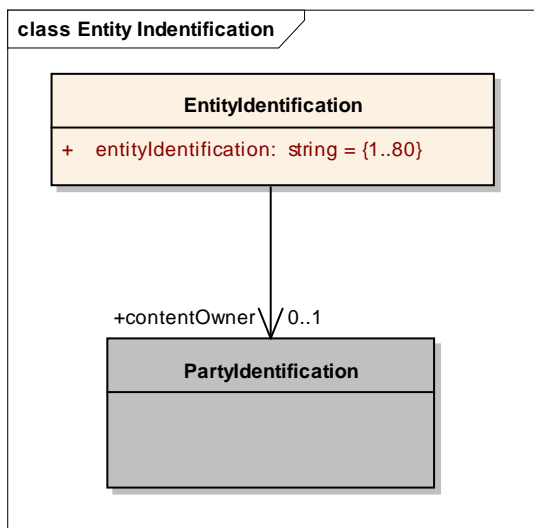
Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EntityIdentification				Information identifying a piece of information, such as an object or document.	
Association	contentOwner	PartyIdentification	0..1	Uniquely identifies the creator of a piece of information.	
Attribute	entityIdentification	string	1..1	The unique identifier of the piece of information, such as the object identification or the document identification.	

4.4.13 Financial Account

Class Diagram
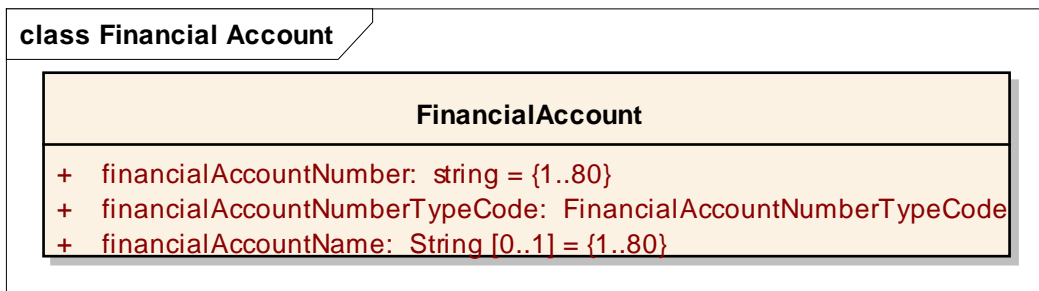
```
class Financial Account

        FinancialAccount

+   financialAccountNumber:  string = {1..80}
+   financialAccountNumberTypeCode:  FinancialAccountNumberTypeCode
+   financialAccountName:  String [0..1] = {1..80}
```

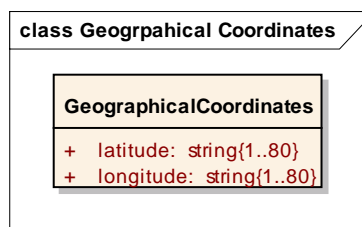**GDD Report**

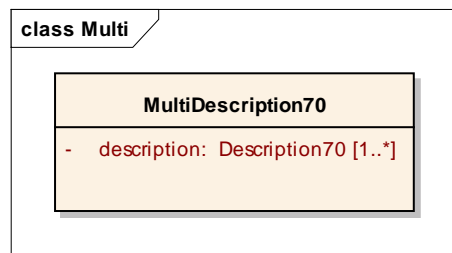| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
FinancialAccount				Information identifying a client's financial account with a financial institution.	
Attribute	financialAccountNumber	string	1..1	Text specifying the number of the financial account.	
Attribute	financialAccountNumberTypeCode	FinancialAccountNumberTypeCode	1..1	Identifies the type of financial account number.	
Attribute	financialAccountName	string	0..1	Text specifying the name of the financial account.	

4.4.14 Geographical Coordinates

Class Diagram

```
class Geogrpahical Coordinates

    GeographicalCoordinates

+   latitude:  string{1..80}
+   longitude:  string{1..80}
```

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
GeographicalCoordinates				The longitude and latitude of a geographical location.	
Attribute	latitude	string	1..1	Angular distance North or South from the earth's equator measured through 90 degrees.	
Attribute	longitude	string	1..1	The arc or portion of the earth's equator intersected between the meridian of a given place and the prime meridian and expressed either in degrees or in time	

4.4.15 Multi Description 70

Class Diagram

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MultiDescription70				Provides multiple iterations of descriptive text with a maximum length of 70 and an associated language code.	
Attribute	description	Description70	1..*	Text content of the description.	

4.4.16 Payment Time Period

Class Diagram
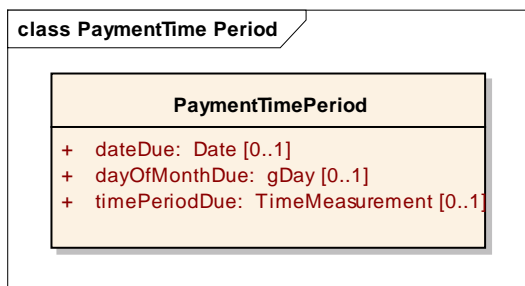
```
class PaymentTime Period

        PaymentTimePeriod

    +   dateDue:  Date [0..1]
    +   dayOfMonthDue:  gDay [0..1]
    +   timePeriodDue:  TimeMeasurement [0..1]
```

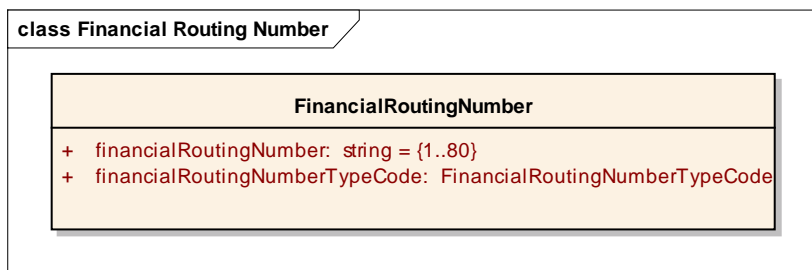**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PaymentTimePeriod				Provides the payment time period information.	
Attribute	dateDue	date	0..1	Calendar date specifying when the payment is due.	
Attribute	dayOfMonthDue	gDay	0..1	The time at which a payment is due, expressed as a day of the month.	
Attribute	timePeriodDue	TimeMeasurement	0..1	Measurement specifying the duration of the period within which the payment in due, for example within 10 days.	

### 4.4.17 Financial Routing Number

Class Diagram

```
class Financial Routing Number

        FinancialRoutingNumber

    +   financialRoutingNumber:  string = {1..80}
    +   financialRoutingNumberTypeCode:  FinancialRoutingNumberTypeCode
```

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplic ity	Definition	Requirements
FinancialRoutingNumber				Provides the routing information regarding the routing number and routing number type.	
Attribute	financialRoutingNumber	string	1..1	Number assigned to a transaction in financial routing between parties.	
Attribute	financialRoutingNumber TypeCode	FinancialRoutingNumberTypeCode	1..1	Code specifying the type of financial routing, e.g. SWIFT.	

4.4.18 Size

Class Diagram
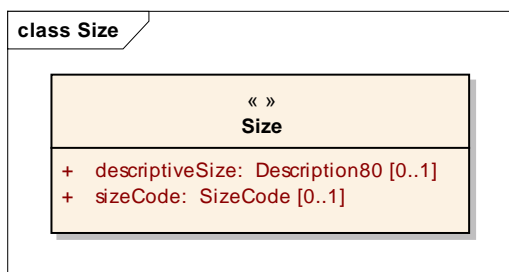

```
class Size

        « »
        Size

+   descriptiveSize:  Description80 [0..1]
+   sizeCode:  SizeCode [0..1]
```

GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Size				The physical dimensions or proportions of an object depicted as a code or a description.	
Attribute	descriptiveSize	Description80	0..1	A description of the size of an object.	
Attribute	sizeCode	SizeCode	0..1	Code specifying the size of an object and the size coding system being applied, for example L (buyer assigned).	

4.4.19 Target Market

Class Diagram
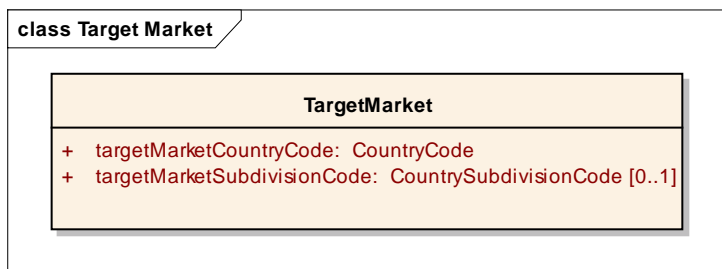
```
class Target Market

        ┌─────────────────────────────────────────────────┐
        │                  TargetMarket                    │
        ├─────────────────────────────────────────────────┤
        │  +  targetMarketCountryCode: CountryCode         │
        │  +  targetMarketSubdivisionCode: CountrySubdivisionCode [0..1] │
        └─────────────────────────────────────────────────┘
```

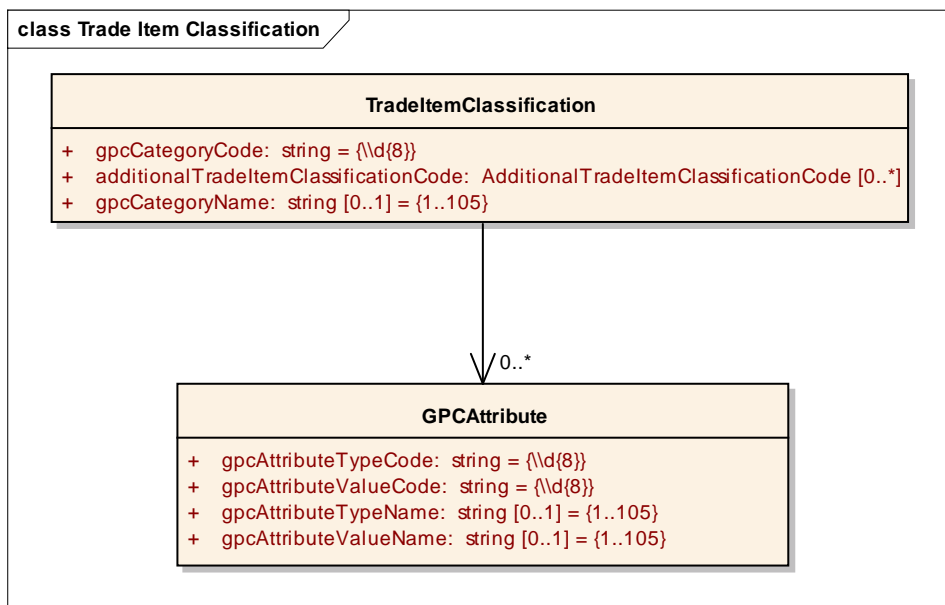**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TargetMarket				Information specifying the geographical area where a trade item is intended to be sold.	
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	targetMarketSubdivisionCode	CountrySubdivisionCode	0..1	The Code for country sub-division definition used to indicate the geo-political subdivision of the target market (=country).	

4.4.20 Trade Item Classification

Class Diagram

GDD Report

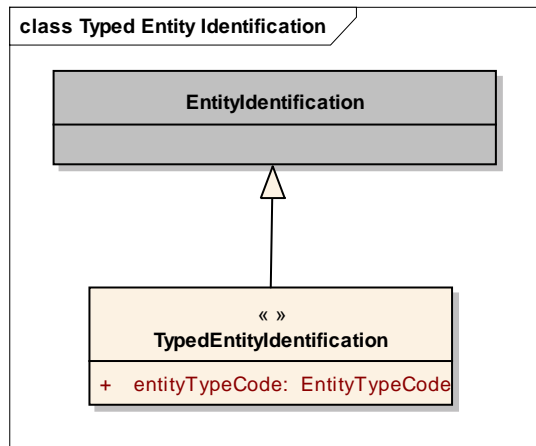| Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TradeItemClassification				Information specifying the product class to which a trade item belongs and the classification system being applied.	
Association		GPCAttribute	0..*	Contains information which identifies 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	additionalTradeItemClassification Code	AdditionalTradeItemClassificationCode	0..*	Category code based on alternate classification schema chosen in addition to the Global Product Classification (GPC).	
Attribute	gpcCategoryName	string	0..1	Name associated with the specified Global Product Classification (GPC) category code.	
GPCAttribute				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	1..1	The GS1 provided code which identifies the Global Product Classification Attribute Value.	
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.	

4.4.21 Typed Entity Identification

Class Diagram

GDD Report

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
TypedEntityIdentification				Information identifying a piece of information such as an object or document, also specifying the type of information.	
Generalization		EntityIdentification		This information on EntityIdentification for TypedEntityIdentification.	
Attribute	entityTypeCode	EntityTypeCode	1..1	Code specifying the type of information being identified, for example a Despatch Advice.	

5 Enumerations

✅ **Note:** Refer to the Global Data Dictionary (GDD) for the code values.

Codelist	GDD Link
AllowanceOrChargeEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: AllowanceOrChargeEnumeration*
DocumentActionEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: DocumentActionEnumeration* ✅ **Note:** The command layer was removed from the eCom Message Architecture for 3.0. At the same time, there were some use cases that required the ability to send what actions were being performed on a business document. As a result, documentActionCode was added to the Document class to handle this need. The Document Action Code List is based on the Document Command Code List, but does not contain the value CORRECT since this applies to GDSN only.
DocumentStatusEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: DocumentStatusEnumeration*
DayOfTheWeekEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: DayOfTheWeekEnumeration*
GenderEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: GenderEnumeration*
NonBinaryLogicEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: NonBinaryLogicEnumeration*
ResponseStatusEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: ResponseStatusEnumeration*
WeekendDayEnumeration	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl: WeekendDayEnumeration*

6 Code Lists

Note: Refer to the Global Data Dictionary (GDD) for the code values.

Codelist	GDD Link
AdditionalConsignmentIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalConsignmentIdentificationTypeCode
AdditionalIndividualAssetIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalIndividualAssetIdentificationTypeCode
AdditionalLogisticUnitIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalLogisticUnitIdentificationTypeCode
AdditionalPartyIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalPartyIdentificationTypeCode
AdditionalReturnableAssetIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalReturnableAssetIdentificationTypeCode
AdditionalServiceRelationIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalServiceRelationIdentificationTypeCode
AdditionalShipmentIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalShipmentIdentificationTypeCode
AdditionalTradeItemClassificationCodeListCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalTradeItemClassificationCodeListCode
AdditionalTradeItemIdentificationTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AdditionalTradeItemIdentificationTypeCode
AllowanceChargeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:AllowanceChargeTypeCode
BarCodeTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:BarCodeTypeCode
ColourCodeListCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ColourCodeListCode
CommunicationChannelCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CommunicationChannelCode
ContactTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ContactTypeCode
CountryCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CountryCode
CountrySubdivisionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CountrySubdivisionCode
CurrencyCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CurrencyCode
DateFormatCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:DateFormatCode
EntityTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:EntityTypeCode
FinancialAccountNumberTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:FinancialAccountNumberTypeCode
FinancialRoutingNumberTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:FinancialRoutingNumberTypeCode
IncotermsCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:IncotermsCode
LanguageCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LanguageCode

Codelist	GDD Link
MeasurementUnitCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:MeasurementUnitCode*
NutrientTypeCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:NutrientTypeCode*
PartyRoleCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PartyRoleCode*
PaymentMethodCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PaymentMethodCode*
PaymentTermsTypeCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PaymentTermsTypeCode*
ResponsibleAgencyCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:ResponsibleAgencyCode*
SizeCodeListCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:SizeCodeListCode*
TaxCategoryCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TaxCategoryCode*
TemperatureMeasurementUnitCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TemperatureMeasurementUnitCode*
TimeMeasurementUnitCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:TimeMeasurementUnitCode*

7 Business Message Examples

Not Applicable

8 Implementation Considerations

Not Applicable

9 Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: ***http://wr.gs1.org***. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.

Note: WRs submitted earlier than February 2012 should be searched in Old Change Requests.

9.1 BMS release 3.0

Change	BMS Doc Version
Baseline version for 3.0 Release.	1.0.0
BMS Public review: ■ corrected design of Amount data type, reversed sequence of codeListVersion and currencyCode. ■ Added in GDTI. ■ Added SourceReference from BMS Artwork Content.	1.0.0
Updated for Increment 1 Release. ■ Added following code values to Contact Type for product recall (PRO, PRM, PRC, PRR) ■ Errata update on definition of amount.	1.0.1

9.2 BMS release 3.1

Change	BMS Doc Version
COMPONENT AND DATATYPE CHANGES **Communication Channel** Extended field length of communicationValue to 200. Added communicationChannelName.	issue 1

Change	BMS Doc Version

class CommunicationChannel

CommunicationChannel

+ communicationChannelCode :CommunicationChannelCode
+ communicationValue :string = {1..200}
+ communicationChannelName :string [0..1] = {1..200}

New class anyURI

class Primitive Data Types - 3.1 maintenance view

«PrimitiveType»
anyURI

maintenance
Change: (Verified) 3.1 new primitive type for TSD project

Changes to Address class:

class Address - Maintenance View

Address

+ city: string [0..1] = {1..200}
+ cityCode: string [0..1] = {1..80}
+ countryCode: CountryCode [0..1]
+ countyCode: string [0..1] = {1..80}
+ crossStreet: string [0..1] = {1..200}
+ currencyOfPartyCode: CurrencyCode [0..1]
+ languageOfThePartyCode: LanguageCode [0..1]
+ name: string [0..1] = {1..200}
+ pOBoxNumber: string [0..1] = {1..80}
+ postalCode: string [0..1] = {1..80}
+ provinceCode: string [0..1] = {1..80}
+ state: string [0..1] = {1..80}
+ streetAddressOne: string [0..1] = {1..200}
+ streetAddressTwo: string [0..1] = {1..200}
+ streetAddressThree: string [0..1] = {1..200}

maintenance
Change: (Verified) 3.1 added streetAddressThree (WR 12-155)

Change to Document class:

Change	BMS Doc Version

class Document - maintenance view

«abstract»
Document

+ creationDateTime: dateTime
+ documentStatusCode: DocumentStatusEnumeration
+ documentActionCode: DocumentActionEnumeration [0..1]
+ documentStructureVersion: string [0..1] = {1..80}
+ lastUpdateDateTime: dateTime [0..1]
+ revisionNumber: positiveInteger [0..1]
+ extension: extension [0..1]

maintenance
Change: (Verified) 3.1 added documentEffectiveDate (WR 11-265)
Change: (Verified) 3.1 added revisionNumber (WR 12-153)

Change to Document Reference class:

class Document Reference - maintenance view

DocumentReference

+ creationDateTime : dateTime [0..1]
+ revisionNumber: positiveInteger [0..1]
+ lineItemNumber: positiveInteger [0..1]

maintenance
Change: (Verified) 3.1 added revisionNumber (WR 12-153)

CODELIST CHANGES

AdditionalTradeItemIdentificationCode

Added values (ARTG_ID, AU_PROSTHESES_REBATE_CODE, NUMERO_RDN)

Deprecated NDC

AdditionalPartyIdentificationCode

Added values PARTITA_IVA, CASHSSP

ColourCodeListCode

Added values 9 (RAL), 10 (NCS) (ECL March 2013)

CommunicationChannelCode

Added SOCIAL_MEDIA

ContactTypeCode

Added values
(BVP,BXA,BYF,BZL,CXC,CYC,CZL,ZZZ,DMO,DNR,DOG,DPP,DQT,DSU

NutrientTypeCode

Added values (ENERSF,NACLI)

PartyRoleCode

Added values (PURCHASE_ORDER_RECEIVER, REGISTERED_AGENT, PARTY_RECEIVING_PRIVATE_DATA)

AdditionalTradeItemClassificationCodeListCode:

Added new codes 49, 50, 51, 52, 53, 54, 55, 56, 57, 58 (GDD: published as ECL in March 2013)

Added names for codes 7, 9, 10, 11, 13, 14, 15, 16, 17, 18, 20, 21, 30

Other updates:

- Name and definition for code value 6 (UNSPSC to ECCMA)
- Definition of code value 16 (BRAD C07).
- Name for code value 43 from 'US FDA Product Code Classification Database' to 'US FDA PCCD'

Change	BMS Doc Version
▪ Name for code value 45 from SNOMED to SNOMED CT ▪ Name for code value 46 from UMDS to UMDNS **IncotermsCode:** removed code values and version, added Note to explain how to apply the code list version attribute. **FinancialAccountNumberTypeCode:** marked existing code values for deletion, added two new code values (IBAN_IDENTIFICATION, BBAN_IDENTIFICATION)	
LIBRARY ORGANIZATION ▪ Added PaymentTermsTypeCode and AllowanceChargeTypeCode.data types and associated code lists. Removed from eCom Common. ▪ Added AllowanceOrChargeTypeEnumeration.data type and associated code list. ▪ Removed AVP classes and data types from Common Library	
NutrientTypeCode: ▪ Added HMB, L_CARNITINE, SALTEQ ▪ Reverted code value for Iodized Salt to IODIZED_SALT to match 2.8 value. **AdditionalTradeItemClassificationCode:** Updated Code Names for following codes (50, 51, 53).	
Updated definitions for AdditionalTradeItemIdentificationCode values of SUPPLIER_ASSIGNED, MODEL_NUMBER, MANUFACTURER_PART_NUMBER.	1.1
• **Added Code 11 (IFPS) to ColourCodeListCode** • **Added Code 63 (NCM) to AdditionalTradeItemClassificationCode** • **Added the following codes to the TaxCategoryCode (REDUCTION_IN_BASE, REDUCTION_IN_TAX_RATE, VALUE_ADDED, VALUE_ADDED_MARGIN).** • **Added NUCLEOTIDE to Nutrient Type Code** • **Added the following codes to the Entity Type Code List: 83 (Basic Party Registration), 84 (Registry Party Data Dump), 85 (Party Registration Response), 86(Catalogue Item Authorisation),87(Catalogue Item Authorisation Response), 88(Catalogue Item Hierarchical Withdrawal), 89(GS1 Response), 90(Price Synchronisation Document), 91 (Price Synchronisation Confirmation).**	1.2

9.3   BMS release 3.2

No work requests. Document upgraded for release consistency.

9.4   BMS release 3.3

No work requests. Document upgraded for release consistency.

9.5   BMS release 3.4

No work requests. Document upgraded for release consistency.

9.6   BMS release 3.5

No work requests. Document upgraded for release consistency.

9.7 BMS release 3.5.1

No work requests. Document upgraded for release consistency.

9.8 BMS Release 3.6

No work requests. Document upgraded for release consistency.

10 Appendices

Not Applicable

11 Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

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Work Group Member	Bohning Joseph	Nestle Purina PetCare
Work Group Member	Brown Scott	GS1 US
Work Group Member	Cashman Stacy	Johnson & Johnson
Work Group Member	Colglazier Scott	Procter & Gamble Co.
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Work Group Member	Ovuc Selcuk	1WorldSync Holdings, Inc.
Work Group Member	Pelekies Andreas	GS1 Germany
Work Group Member	Pujol Xavier	GS1 Spain
Work Group Member	Radomski Nadine	Dean Foods Company
Work Group Member	Reichen Thanh	GS1 Switzerland
Work Group Member	Reissmann Hajo	Universitaetsklinikum Schleswig-Holstein
Work Group Member	Richard Ryan	Mondelez International, Inc.

Function	Name	Company / organisation
Work Group Member	Robba Steven	1WorldSync Holdings, Inc.
Work Group Member	Rubio Alegren Sylvia	ICA AB
Work Group Member	Santonja Francisco	EDICOM
Work Group Member	Sato Craig	ITradeNetwork.com, Inc.
Work Group Member	Savatic Nada	Abbott Laboratories Inc.
Work Group Member	Schins Armand	Ahold (Europe)
Work Group Member	Schmidt Tom Eric	August Storck KG
Work Group Member	Schneck Joy	General Mills, Inc.
Work Group Member	Schneider Christian	GS1 Switzerland
Work Group Member	Segovic Damir	GS1 Croatia
Work Group Member	Siow Andy	GS1 Singapore
Work Group Member	Sobrino Gabriel	GS1 Netherlands
Work Group Member	Soegaard Erik	GS1 Denmark
Work Group Member	Stafeev Maxim	SKB Kontur
Work Group Member	Stewart Jo Anna	GXS (US)
Work Group Member	Strouse Owen	FSE, Inc.
Work Group Member	Tan Milton	GS1 Malaysia
Work Group Member	Thomsen Tanja	GS1 Germany
Work Group Member	Tomassi Gina	PepsiCo, Inc.
Work Group Member	Tyson Betty	Knouse Foods Cooperative, Inc
Work Group Member	Utkovic Mirna	GS1 Australia
Work Group Member	Vatai Krisztina	GS1 Hungary
Work Group Member	Welch Shan	GS1 UK
Work Group Member	Werthwine Thomas	Johnson & Johnson
Work Group Member	Wiggins Audrey	Wal-Mart Stores, Inc.
Work Group Member	Wijnker Stephan	GS1 Australia
Work Group Member	Windsperger Bekki	Best Buy Co., Inc.
Work Group Member	Wissel Maureen	Best Buy Co., Inc.
Work Group Member	Zhang Tony	FSE, Inc.

11.1.2 EDI SMG

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
Member	Bemrose, Jonathan	R&R Ice Cream
Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG
Member	Boikanyo, Rebone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.

Function	Name	Company / organisation
Member	Chresta, Richard	GS1 Switzerland
Member	Cook, Don	Wal-Mart Stores, Inc.
Member	Cox, Marc	Philips Electronics N.V.
Member	Darnell, David	Systrends
Member	De Flou, Nele	GS1 Belgium & Luxembourg
Member	Dicks, Arne	GS1 Germany
Member	Duvinger, Karina	GS1 Sweden
Member	Foerderer, Klaus	GS1 Germany
Member	Gathmann, Stefan	GS1 Ireland
Member	Grangard, Anders	GS1 Global Office
Member	Harpell, Eileen	GS1 Community Room Staff
Member	Herregodts, Kurt	GS1 Belgium & Luxembourg
Member	Kempkes, Fred	Unilever N.V.
Member	Kernan, Brendan	GS1 Ireland
Member	Kidd, Robin	Nestle
Member	Krid, Anne-Claire	GS1 France
Member	Lanoue, Tom	General Mills, Inc.
Member	Laur, Rita	GS1 Canada
Member	Lenman, Mia	GS1 Sweden
Member	Lerch, Hanjoerg	METRO Group
Member	Moberg, Dale	Axway
Member	Montes de Oca, Alejandra	GS1 Mexico
Member	Ng, Ella	GS1 Australia
Member	Peelen, Esther	GS1 Netherlands
Member	Pelekies, Andreas	GS1 Germany
Member	Perrier, Patricia	GS1 France
Member	Przybilla, Christian	GS1 Germany
Member	Pujol, Xavier	GS1 Spain
Member	Racek, Greg	Wal-Mart Stores, Inc.
Member	Repetto, Mirko	GS1 Italy
Member	Robba, Steven	1WorldSync Holdings, Inc.
Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
Member	Schmid, Sue	GS1 Australia
Member	Schneider, Christian	GS1 Switzerland
Member	Sehorz, Eugen	GS1 Austria
Member	Sharma, Vishal	General Mills, Inc.
Member	Shimazaki, Ayako	GS1 Japan
Member	Sion, Emilie	GS1 France
Member	Souza, Nadia	GS1 Brasil
Member	Strand, Roman	GS1 Germany

Function	Name	Company / organisation
Member	Tan, Milton	GS1 Malaysia
Member	Tompsett, Simon	Waitrose
Member	Trelle, Ute	1WorldSync Holdings, Inc.
Member	Tse, Steve	GS1 Hong Kong
Member	Tyson, Betty	Knouse Foods Cooperative, Inc
Member	Van den Bergh, Senne	GS1 Belgium & Luxembourg
Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
Member	Veldhuis, Saskia	Procter & Gamble Co.
Member	Welch, Shan	GS1 UK
Member	Westerkamp, Jan	GS1 Netherlands
Member	Wilson, Mary	GS1 US
Member	Windsperger, Bekki	Best Buy Co., Inc.
Member	Yang, Shaopeng	GS1 China
Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

11.1.3 Development Team Members

Function	Name	Organisation
GSMP Process Lead	David Buckley	GS1 Global Office
Standards Content Lead		GS1 Global Office
Technical Development Lead	Miklos Bolyky	GS1 Global Office
Peer Review	Mark Van Eeghem	GS1 Global Office