

# Business Message Standard (BMS) Shared Common Library

Release 3.1.14

09-Apr-2020, Issue 1.9





# **Document Summary**

Document Item	Current Value
Document Title	Shared Common Library - Business Message Standard (BMS)
BMS Release	3.1.14
Document Version	Issue 1.9, 09-Apr-2020
Work Group Name	eCom SMG, GMD SMG
BMS Template Version	2.4

# **Work Request Reference**

Date of WR Submission to GSMP	WR Submitter	Work Request (WR) Number
	GS1 Switzerland	11-265
	GS1 Australia	12-153
	GS1 Australia	12-155
	GS1 France	12-144
	GS1 Germany	12-209

# **Document Change History**

Date of Change	Version	Changed By	Reason for Change	Summary of Change
October 13, 2011	BMS 3.0 Issue 1.0.0	Eric Kauz	Publication Clean-up	Noted in summary of changes.
January 2, 2012	BMS 3.0.1 Issue 1.0.1	Eric Kauz	Increment 1 Release	Noted in summary of changes.
May 1, 2013	BMS 3.1 Issue 1	Coen Janssen	Publication version 3.1	See summary of changes section.
Sept 24, 2013	BMS 3.1 Issue 1.1	Eric Kauz	Publication version 3.1 GDSN Errata	See summary of changes section
Jan 20 2014	BMS 3.1 Issue 1.2	Eric Kauz	GDSN ECL	See summary of changes section
Sept 14 2014	BMS 3.1 Issue 1.3	Eric Kauz	GDSN ECL and Phase 3 Feedback	See summary of changes section
Nov 18 2014	BMS 3.1 Issue 1.4	Eric Kauz	GDSN ECL and Phase 3 Feedback	See summary of changes section
Oct 05 2015	BMS 3.1 Issue 1.5	Eric Kauz	GDSN Dec ECL	See summary of changes section
Jun 01 2016	BMS 3.1 Issue 1.6	Eric Kauz	3.1.2	See summary of changes section.
Jan 03 2020	BMS 3.1 Issue 1.7	Radhika Chauhan	Release 3.1.12	See Summary of Changes Section
Jan 28 2020	BMS 3.1 Issue 1.8	Radhika Chauhan	Release 3.1.13	See Summary of Changes Section
Apr 9 2020	BMS 3.1 issue 1.9	Maryam Mirza	Release 3.1.14	See Summary of Change Section



Business Message Standard (BMS), Shared Common Library WHILST EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE GUIDELINES TO USE THE GS1 STANDARDS CONTAINED IN THE DOCUMENT ARE CORRECT, GS1 AND ANY OTHER PARTY INVOLVED IN THE CREATION OF THE DOCUMENT HEREBY STATE THAT THE DOCUMENT IS PROVIDED WITHOUT WARRANTY, EITHER EXPRESSED OR IMPLIED, REGARDING ANY MATTER, INCLUDING BUT NOT LIMITED TO THE OF ACCURACY,



MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND HEREBY DISCLAIM ANY AND ALL LIABILITY, DIRECT OR INDIRECT, FOR ANY DAMAGES OR LOSS RELATING TO OR RESULTING FROM THE USE OF THE DOCUMENT. THE DOCUMENT MAY BE MODIFIED, SUBJECT TO DEVELOPMENTS IN TECHNOLOGY, CHANGES TO THE STANDARDS, OR NEW LEGAL REQUIREMENTS. SEVERAL PRODUCTS AND COMPANY NAMES MENTIONED HEREIN MAY BE TRADEMARKS AND/OR REGISTERED TRADEMARKS OF THEIR RESPECTIVE COMPANIES. GS1 IS A REGISTERED TRADEMARK OF GS1 AISBL.



# **Table of Contents**

1.	Business	Domain View	6
	1.1. Prol	blem Statement / Business Need	6
	1.2. Obje	ective	6
	1.3. Aud	dience	6
	1.4. Refe	erences	6
	1.5. Ack	nowledgements	6
	1.5.1.	GDSN SMG	
	1.5.2.	eCom SMG	
	1.5.3.	Development Team Members	13
2.	Business	Context	14
3.	Business	Transaction View	14
4.	Information	on Model (Including GDD)	15
	4.1. Prim	nitive Types	
	4.1.1.	Constrained Strings	
	4.2. Bus	siness Data Types	
	4.2.1.	Identifier Data Type	
	4.2.2.	GS1 Key Data Types	
	4.2.3.	Additional Key Data Types	
	4.2.4.	Amount Data Type	
	4.2.5.	Description Data Types	
	4.2.6.	Measurement and Quantity Data Types	
		de Data Types	
	4.3.1.	Code and GS1 Code Data Types	
	4.3.2.	Additional Identification Code Data Types	
	4.3.3.	GS1 Code Data Types	
	4.3.4.	Enumerations	
	4.3.5.	ISO Code Data Types	
	4.3.6.	UN Code Data Types	
	4.3.7.	Additional Trade Item Classification Code	
	4.3.8.	Colour Code	
	4.3.9.	Responsible Agency Code	
	4.3.10.		
		mponents	
	4.4.1.	GS1 Identification Components	
	4.4.2.	Range components	
	4.4.3.	Address	
	4.4.4.	Colour	
	4.4.5.	Communication Channel	
	4.4.6.	Contact	59

	,	Business Message Standard (BMS),	Shared Common Library	
	4.4.7.	Currency Exchange Rate Information		. 60
	4.4.8.	Date Optional Time		. 61
	4.4.9.	Dimension		. 62
	4.4.10.	Document		. 63
	4.4.11.	Document Reference		. 64
	4.4.12.	Entity Identification		. 65
	4.4.13.	Financial Account		. 66
	4.4.14.	Geographical Coordinates		. 66
	4.4.15.	Multi Description 70		. 67
	4.4.16.	Payment Time Period		. 68
	4.4.17.	Financial Routing Number		. 68
	4.4.18.	Size		. 69
	4.4.19.	Target Market		. 70
	4.4.20.	Trade Item Classification		. 71
	4.4.21.	Typed Entity Identification		. 72
5.	Business I	Message Examples		74
6.	Codes			74
	6.1. GS1	Managed Codes		. 74
7.	Implement	ation Considerations		74
8.	Appendice	es		74
9.	Summary	of Changes		74
	9.1. BMS	release 3.0		. 74
	0.0 DMC	ralages 2.4		71



# Business Domain View

#### 1.1. Problem Statement / Business Need

Not Applicable

# 1.2. Objective

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.

#### 1.3. Audience

The primary audience for this document are individuals assigned as GS1 Business Process Analysts, Business Requirements Groups Managers, GDD Managers, and XML System Developers who are responsible for the completion and delivery of the Business Message Standards.

#### 1.4. References

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

# 1.5. Acknowledgements

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



#### 1.5.1. GDSN SMG

Function	Name	Company / organisation
Work Group Member	Arseneau Craig	Commport Communications Int'l Inc.
Work Group Member	Atkins Mickey	Ahold (USA)
Work Group Member	Ausili Andrea	GS1 Italy
Work Group Member	Bellosta Carreras Santiago	EDICOM
Work Group Member	Biffi Giovanni	GS1 Colombia
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.
Work Group Member	Davies Tracey	GXS (UK)
Work Group Member	Depke Braden	Abbott Laboratories Inc.
Work Group Member	Doering JoAnne	Abbott Laboratories Inc.
Work Group Member	Feuerstein Véra	Nestle
Work Group Member	Fortier Mitch	GS1 Australia
Work Group Member	Fremont Frederique	C.H.I Robert Ballanger
Work Group Member	Garbett Alasdair	WDFG UK LTD
Work Group Member	Gathmann Stefan	GS1 Ireland
Work Group Member	Ginsburg Eric	HJ Heinz
Work Group Member	Gray Neil	GS1 UK
Work Group Member	Gupta Sudu	ITradeNetwork.com, Inc.
Work Group Member	Gyuris János	GS1 Hungary
Work Group Member	Hoffman Rob	Hershey Company (The)
Work Group Member	Ichihara Hideki	GS1 Japan
Work Group Member	Jaworski Jan	Wilton Industries, Inc.
Work Group Member	Jesus Ed	Chep
Work Group Member	Jönsson Peter	GS1 Sweden
Work Group Member	Kaerner Juliane	GS1 Germany
Work Group Member	Kasper Sascha	1WorldSync Holdings, Inc.
Work Group Member	Kernan Brendan	GS1 Ireland
Work Group Member	Kidd Robin	Nestle
Work Group Member	Koch Phyllis	The Schwan Food Company
Work Group Member	Kolb Werner	Unilever N.V.
Work Group Member	Kolwane Leppie	GS1 South Africa / Consumer Goods Council of South Africa
Work Group Member	Lai Kristel	GS1 Canada
Work Group Member	Laskero Nancy	Sears, Roebuck and Co.



Function	Name	Company / organisation
Work Group Member	Laur Rita	GS1 Canada
Work Group Member	Lavik Jason	Target Corporation
Work Group Member	Laxdal Jason	GS1 Canada
Work Group Member	Leblond Jean-Luc	GS1 France
Work Group Member	Lekwana Pedro	GS1 South Africa / Consumer Goods Council of South Africa
Work Group Member	Li Daoyi	GS1 China
Work Group Member	Little Pebbles	Charlotte Pipe and Foundry Company
Work Group Member	Massimino Damián	Eway S.A.
Work Group Member	Middleton Justin	GS1 Australia
Work Group Member	Mittersteiner Federico	GS1 Italy
Work Group Member	Naal Doug	Kraft Foods, Inc.
Work Group Member	Nunez Katrin	Summa Technology Group
Work Group Member	Nye Christine	Hershey Company (The)
Work Group Member	Olsson Staffan	GS1 Sweden
Work Group Member	ONeill Ted	ITradeNetwork.com, Inc.
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.
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



Function	Name	Company / organisation
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.
Work Group Member	Arseneau Craig	Commport Communications Int'l Inc.
Work Group Member	Atkins Mickey	Ahold (USA)
Work Group Member	Ausili Andrea	GS1 Italy
Work Group Member	Bellosta Carreras Santiago	EDICOM
Work Group Member	Biffi Giovanni	GS1 Colombia
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.
Work Group Member	Davies Tracey	GXS (UK)
Work Group Member	Depke Braden	Abbott Laboratories Inc.
Work Group Member	Doering JoAnne	Abbott Laboratories Inc.
Work Group Member	Feuerstein Véra	Nestle
Work Group Member	Fortier Mitch	GS1 Australia
Work Group Member	Fremont Frederique	C.H.I Robert Ballanger
Work Group Member	Garbett Alasdair	WDFG UK LTD
Work Group Member	Gathmann Stefan	GS1 Ireland
Work Group Member	Ginsburg Eric	HJ Heinz
Work Group Member	Gray Neil	GS1 UK
Work Group Member	Gupta Sudu	ITradeNetwork.com, Inc.
Work Group Member	Gyuris János	GS1 Hungary
Work Group Member	Hoffman Rob	Hershey Company (The)



Function	Name	Company / organisation
Work Group Member	Ichihara Hideki	GS1 Japan
Work Group Member	Jaworski Jan	Wilton Industries, Inc.
Work Group Member	Jesus Ed	Chep
Work Group Member	Jönsson Peter	GS1 Sweden
Work Group Member	Kaerner Juliane	GS1 Germany
Work Group Member	Kasper Sascha	1WorldSync Holdings, Inc.
Work Group Member	Kernan Brendan	GS1 Ireland
Work Group Member	Kidd Robin	Nestle
Work Group Member	Koch Phyllis	The Schwan Food Company
Work Group Member	Kolb Werner	Unilever N.V.
Work Group Member	Kolwane Leppie	GS1 South Africa / Consumer Goods Council of South Africa
Work Group Member	Lai Kristel	GS1 Canada
Work Group Member	Laskero Nancy	Sears, Roebuck and Co.
Work Group Member	Laur Rita	GS1 Canada
Work Group Member	Lavik Jason	Target Corporation
Work Group Member	Laxdal Jason	GS1 Canada
Work Group Member	Leblond Jean-Luc	GS1 France
Work Group Member	Lekwana Pedro	GS1 South Africa / Consumer Goods Council of South Africa
Work Group Member	Li Daoyi	GS1 China
Work Group Member	Little Pebbles	Charlotte Pipe and Foundry Company
Work Group Member	Massimino Damián	Eway S.A.
Work Group Member	Middleton Justin	GS1 Australia
Work Group Member	Mittersteiner Federico	GS1 Italy
Work Group Member	Naal Doug	Kraft Foods, Inc.
Work Group Member	Nunez Katrin	Summa Technology Group
Work Group Member	Nye Christine	Hershey Company (The)
Work Group Member	Olsson Staffan	GS1 Sweden
Work Group Member	ONeill Ted	ITradeNetwork.com, Inc.
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.
Work Group Member	Robba Steven	1WorldSync Holdings, Inc.



Function	Name	Company / organisation
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.

# 1.5.2. eCom 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



Function	Name	Company / organisation
Member	Boikanyo, Rebone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.
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



Function	Name	Company / organisation
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
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

# 1.5.3. Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Champion, Justin Childs	GS1 Global Office
Standards Content Lead	Eric Kauz, Mark Van Eeghem, Coen Janssen	GS1 Global Office
Technical Development Lead	Ewa lwicka	GS1 Global Office
Peer Review	Eric Kauz, Mark Van Eeghem, Coen Janssen	GS1 Global Office



# 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

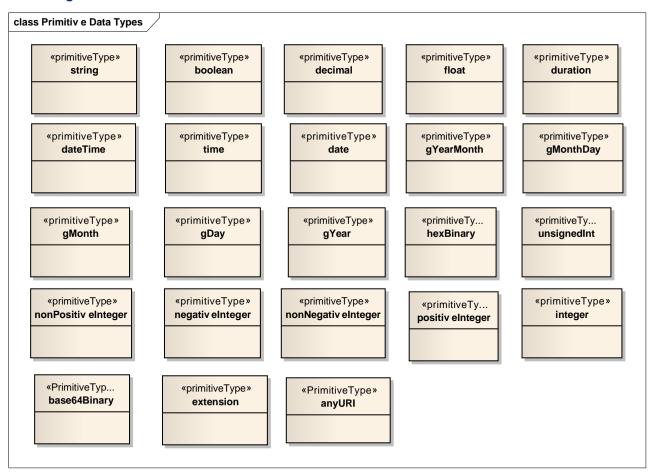
Not Applicable



# 4. Information Model (Including GDD)

# 4.1. Primitive Types

#### **Class Diagram**





#### **GDD** report

can be absolute or relative, and
can be absolute or relative, and
al has a lexical representation eriod as a decimal indicator. An
valued second property, and a
peginning moment of each day (in vith '00:00:00' of the next day).
format PnYn MnDTnH nMnS, r of days, 'T' is the date/time seconds. The number of seconds
ntains the 'xsd:any
ess than 2^24, and e is an integer
lexical representation for Y-MM.
third of May. The lexical M-DD.
Month is the left and right truncated
of the month. The lexical
allowing the trailing decimal point.



Data Type	W3C Definition
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.
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.

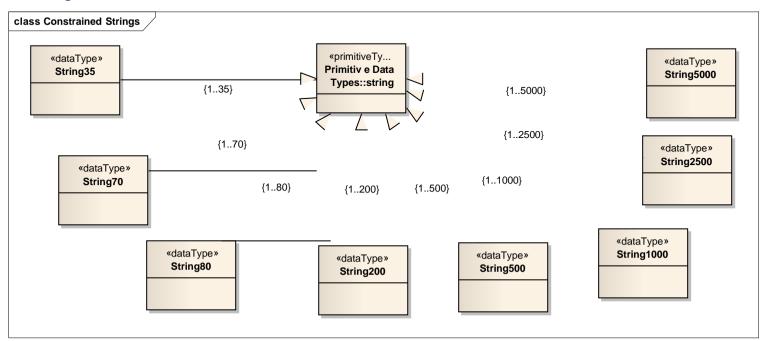


**Note:** Source is XML Schema Part 2: Datatypes Second Edition, W3C Recommendation 28 October 2004. More details are available at the following link: <a href="http://www.w3.org/TR/xmlschema-2/">http://www.w3.org/TR/xmlschema-2/</a>



## 4.1.1. Constrained Strings

#### Class diagram



#### **GDD** report

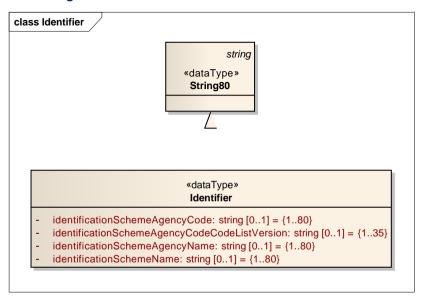
Not applicable, these types were included for technical reasons.



# 4.2. Business Data Types

# 4.2.1. Identifier Data Type

#### **Class Diagram**



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	01	The identification of the agency that maintains the identification scheme.	
Attribute	identificationSchemeAgencyCodeCode	string	01	The version of the code list of agency code lists.	



#### Business Message Standard (BMS),

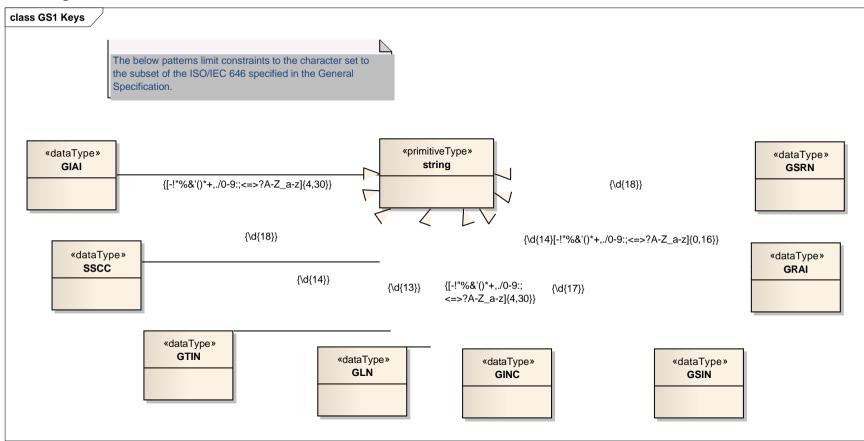
#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
	ListVersion				
Attribute	identificationSchemeAgencyName	string	01	The name of the agency that maintains the identification scheme.	
Attribute	identificationSchemeName	string	01	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
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.

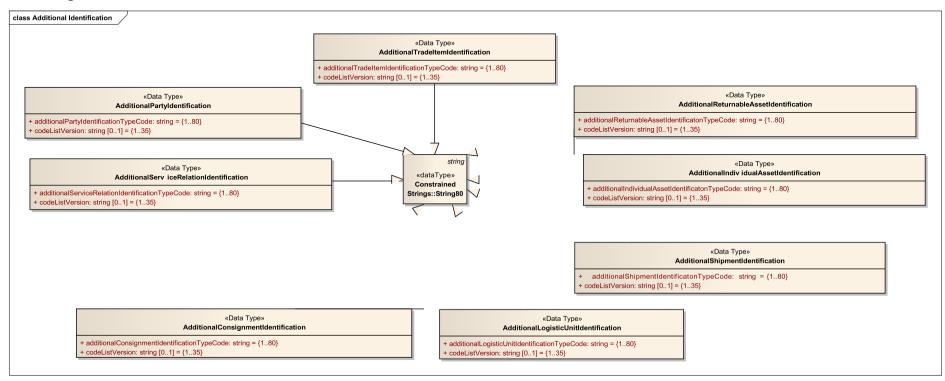
Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
GIAI				The GS1 Identification Key used to identify an Individual Asset. The key comprises a GS1 Company Prefix and Individual Asset Reference.	
Generalization		string			
GINC				The GS1 Identification Key used to 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			

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
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			
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**



#### **GDD Report: Additional Key Data Types**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalConsignmentIdentification				Additional identification for a consignment.	
Generalization		String80		The identification value.	
Attribute	additionalConsignmentIdentificationTypeCode	string	11	The type of additional identification for a consignment.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain	

#### Shared Common Library

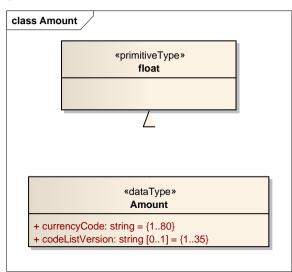
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				point in time.	
AdditionalIndividualAssetIdentificatio n				Additional identification for an individual asset.	
Generalization		String80		The identification value.	
Attribute	additionalIndividualAssetIdentificatonTypeCode	string	11	The type of additional identification for an individual asset.	
Attribute	codeListVersion	string	01	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	11	Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	
AdditionalPartyldentification				A party identifier that is in addition to the GLN.	
Generalization		String80		The identification value	
Attribute	additionalPartyIdentificationTypeCode	string	11	Identification of a party by use of a code in addition to the Global Location Number.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	
AdditionalReturnableAssetIdentificati on				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.	
Generalization		String80		The identification value.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	additionalReturnableAssetIdentificatonTypeCode	string	11	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	01	The snapshot of the code list at a certain point in time.	
AdditionalServiceRelationIdentificatio n				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	11	TBD by workgroup	
Attribute	codeListVersion	string	01	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	11	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).	
Attribute	codeListVersion	string	01	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	11	This code will be used to cross-reference	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				the Vendors internal trade item number to the GTIN in a one to one relationship.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	

## 4.2.4. Amount Data Type

# **Class Diagram**



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Multiplicity Definition F	
Amount				A monetary amount with an associated currency code.	
Generalization		float		The amount value	
Attribute	currencyCode	string	11	A code representing the currency of a particular country or group of	



#### Business Message Standard (BMS),

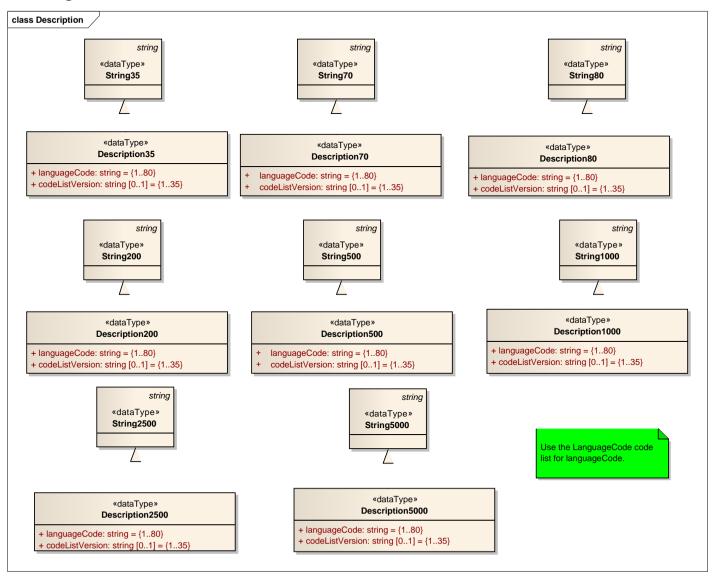
#### Shared Common Library

				countries.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	



#### 4.2.5. Description Data Types

#### **Class Diagram**





Content	Attribute / Role	Datatype /Secondary class	Multiplici ty	Definition	Requirements
Description1000				A string of no more than 1000 characters in a specified language.	
Generalization		String1000		The description value	
Attribute	languageCode	string	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	IanguageCode	string	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	IanguageCode	string	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	
Attribute	IanguageCode	string	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	11	A code representing the language used in the description.	

#### Business Message Standard (BMS),

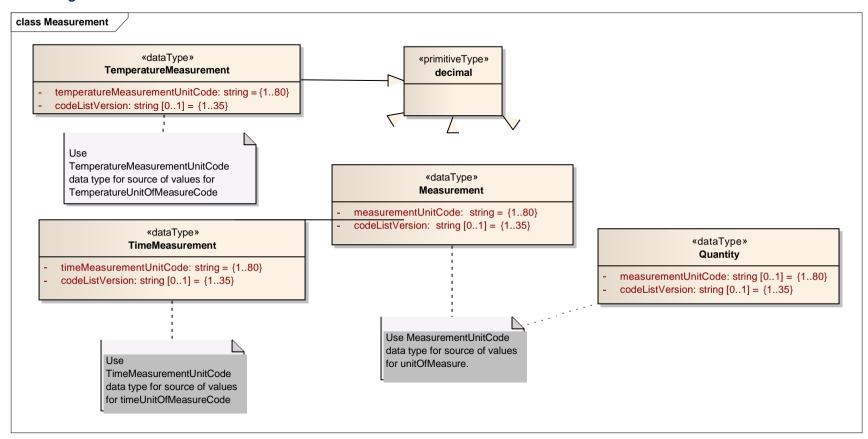
#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multiplici ty	Definition	Requirements
Attribute	codeListVersion	string	01	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	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	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	11	A code representing the language used in the description.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	



### 4.2.6. Measurement and Quantity Data Types

#### **Class Diagram**



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

#### Business Message Standard (BMS),

#### Shared Common Library

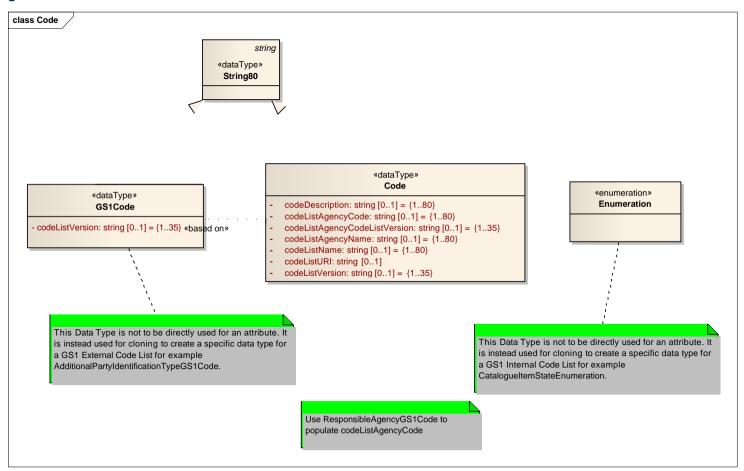
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
				measure code.	
Generalization		decimal		The Measurement Value.	
Attribute	measurementUnitCode	string	11	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	01	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	01	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	01	The snapshot of the code list at a certain point in time.	
TemperatureMeasureme nt				Provides temperature measurement value and associated unit of measure code.	
Generalization		decimal		The Temperature Measurement Value	
Attribute	temperatureMeasurementUnitCode	string	11	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	01	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	11	Any standardized, reproducible unit that can be used to measure any physical property.	
Attribute	codeListVersion	string	01	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**

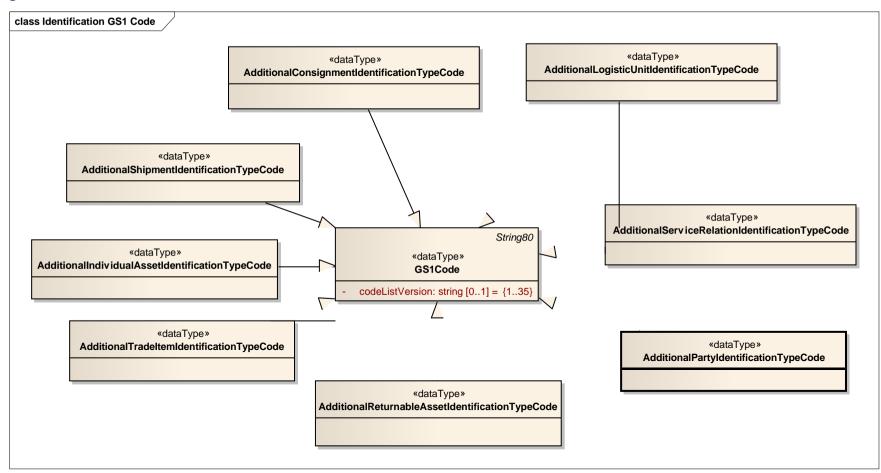




Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Code				Generic code data type not linked to a specific code list. Besides the code value the code data type allows to specify additional information such as the responsible code list agency and the code list identification.	
Generalization		String80			
Attribute	codeDescription	string	01	A description for the code value provided.	
Attribute	codeListAgencyCode	string	01	A code representing the agency which manages the code list for example 5 for ISO.	
Attribute	codeListAgencyCodeListVersion	string	01	The snapshot of the Code List Agency code list at a certain point in time.	
Attribute	codeListAgencyName	string	01	A name of the agency which manages the code list for example ISO.	
Attribute	codeListName	string	01	The name of the code list which provides the code value.	
Attribute	codeListURI	string	01	A string that refers to the location of the code list which provides the code value.	
Attribute	codeListVersion	string	01	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	01	The snapshot of the code list at a certain point in time.	



## 4.3.2. Additional Identification Code Data Types



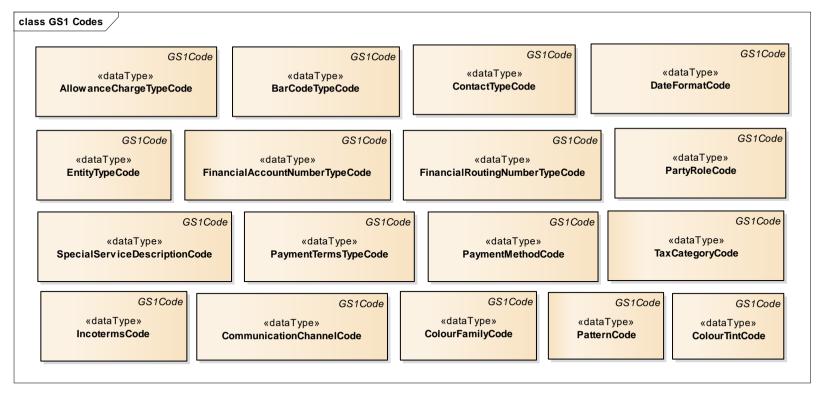


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdditionalConsignmentIdentificationTypeCode				Code specifying an additional consignment identification type. Allowed code values are specified in GS1 Code List AdditionalConsignmentIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalDocumentIdentificationTypeCode				Code specifying an additional document identification type. Allowed code values are specified in GS1 Code List AdditionalDocumentIdentificationTypeCode.	
AdditionalIndividualAssetIdentificationTypeCo de				Code specifying an additional individual asset identification type. Allowed code values are specified in GS1 Code List AdditionalIndividualAssetIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalLogisticUnitIdentificationTypeCode				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			
AdditionalReturnableAssetIdentificationTypeC ode				Code specifying an additional returnable asset identification type. Allowed code values are specified in GS1 Code List AdditionalReturnableAssetIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalServiceRelationIdentificationTypeCo de				Code specifying an additional individual service relation identification type. Allowed code values are specified in GS1 Code List AdditionalServiceRelationIdentificationTypeCode.	
Generalization		GS1Code			
AdditionalShipmentIdentificationTypeCode				Code specifying an additional shipment identification type. Allowed code values are specified in GS1 Code List AdditionalShipmentIdentificationTypeCode.	
Generalization		GS1Code			



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
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





Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
AllowanceChargeTypeCode				Code specifying a type of allowance or charge. Allowed code values are specified in GS1 Code List AllowanceChargeTypeCode.	
Generalization		GS1Code			
BarCodeTypeCode				Code specifying a bar code type. Allowed code values are specified in GS1 Code List BarCodeTypeCode.	
Generalization		GS1Code			
ColourFamilyCode				Code specifying the family code of the product colour. Allowed code values are specified in GS1 Code List ColourFamilyCode.	
Generalization		GS1Code			
ColourTintCode				Code specifying the tint or shade code of the product colour. Allowed code values are specified in GS1 Code List ColourTintCode.	
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			

((GS

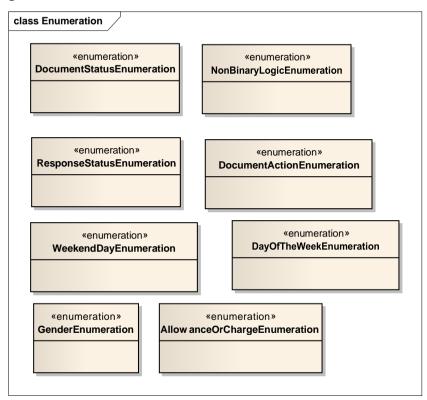
Business Message Standard (BMS), Shared Common Library

	Business Message Standard (BMS),	Shared Common Library
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	
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	
PartyRoleCode		Code specifying a party role. Allowed code values are specified in GS1 Code List PartyroleCode.
Generalization	GS1Code GS1Code	
PatternCode		Code specifying the pattern code of the product. Allowed code values are specified in GS1 Code List PatternCode.
Generalization	GS1Code	
PaymentTermsTypeCode		Code specifying a payment terms type. Allowed code values are specified in GS1 Code List PaymentTermsTypeCode.
Generalization	GS1Code GS1Code	
PaymentMethodCode		Code specifying a payment method. Allowed code values are specified in GS1 Code List PaymentMethodCode.
Generalization	GS1Code	
SpecialServicesDescriptionCode		Code specifying a special service. Allowed code values are specified in GS1 Code List SpecialServicesDescriptionCode.
Generalization	GS1Code	
TaxCategoryCode		Code specifying a tax category. Allowed code values are specified in GS1 Code List TaxCategoryCode.





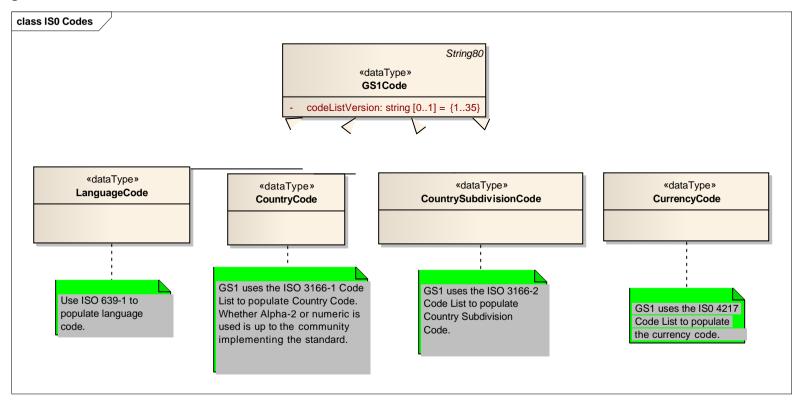
## 4.3.4. Enumerations





## 4.3.5. ISO Code Data Types

#### **Class Diagram**



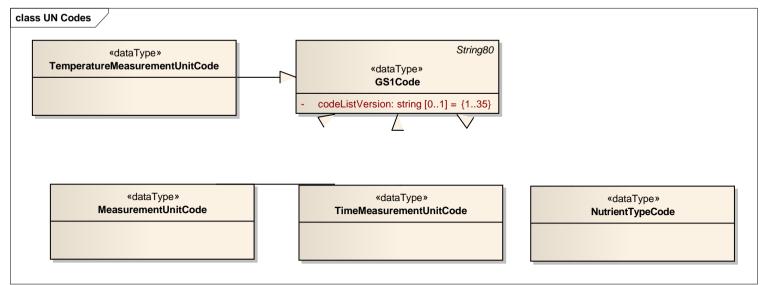
## **GDD** report

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.	

#### Shared Common Library

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





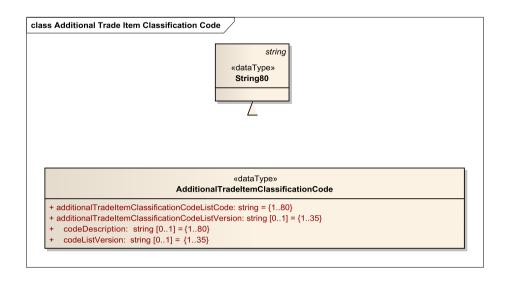
## **GDD** report

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**

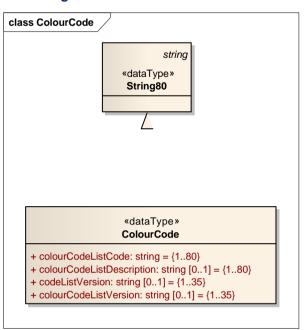


Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Requiremen ts
AdditionalTradeItemClassificationCo de				Code specifying an additional trade item classification other than the GS1 Global Product Classification. The applied classification scheme is specified as additional information together with the classification value.	
Generalization		String80		Category code based on additional classification scheme provided in addition to Global Product Classification	
Attribute	additionalTradeItemCI assificationCodeListC ode	string	11	Code specifying the applied additional trade item classification scheme. Allowed values are specified in GS1 code list AdditionalTradeItemClassificationCodeListCode.	
Attribute	additionalTradeItemCI assificationCodeListV ersion	string	01	The version number of the GS1 code list AdditionalTradeItemClassificationCodeListCode.	
Attribute	codeDescription	string	01	A description for the code value provide by GS1.	
Attribute	codeListVersion	string	01	The version of the applied additional trade item classification scheme.	



## 4.3.8. Colour Code

## **Class Diagram**

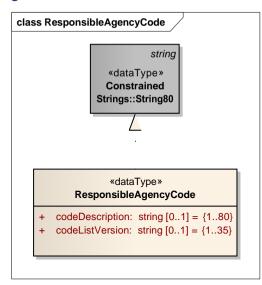


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ColourCode				A code depicting the colour of an object according to a specific code list. The applied code list is specified as additional information together with the colour code.	
Generalization		String80			
Attribute	colourCodeListCode	string	11	Code specifying a colour code list. Allowed code values are specified in GS1 Code List ColourCodeListCode.	

#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	colourCodeListDescription	string	01	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	01	The version of the applied colour code list.	
Attribute	colourCodeListVersion	string	01	The version of the ColourCodeListCode code list.	

## 4.3.9. Responsible Agency Code

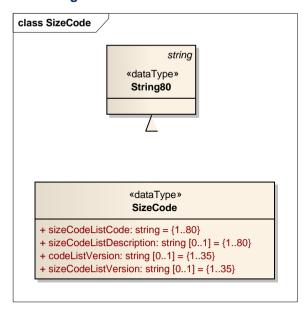




## **GDD Report**

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	01	A description of the code.	
Attribute	codeListVersion	string	01	The version of the code list.	

## 4.3.10. Size Code





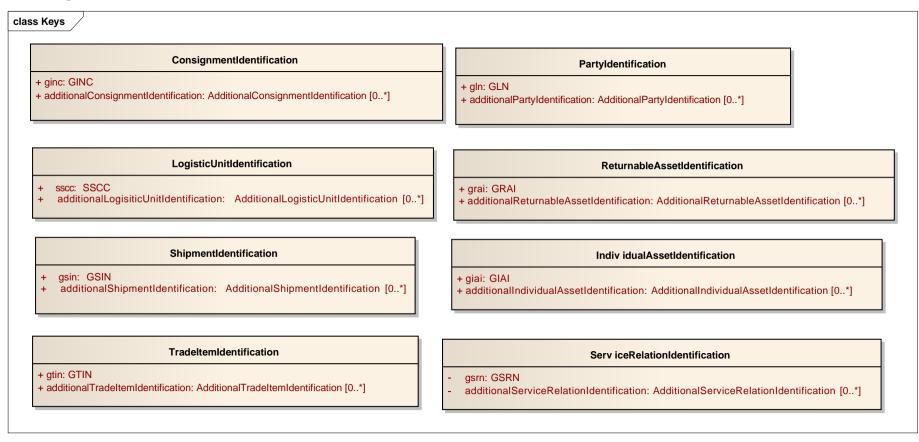
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
SizeCode				A code depicting the size of an object according to a specific code list. The applied code list is specified as additional information together with the size code.	
Generalization		String80		A code depicting the size of an object according to a specified list of code	
Attribute	sizeCodeListCode	string	11	Code specifying a size code list. Allowed code values are specified in GS1 Code List SizeCodeListCode.	
Attribute	sizeCodeListDescription	string	01	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	01	The version of the applied size code list.	
Attribute	sizeCodeListVersion	string	01	The version of the SizeCodeListCode code list.	



## 4.4. Components

## 4.4.1. GS1 Identification Components

#### **Class Diagram**



Content Attribute /	le Datatype /Secondary class	Multiplic De	Definition	Requirements
---------------------	------------------------------	--------------	------------	--------------

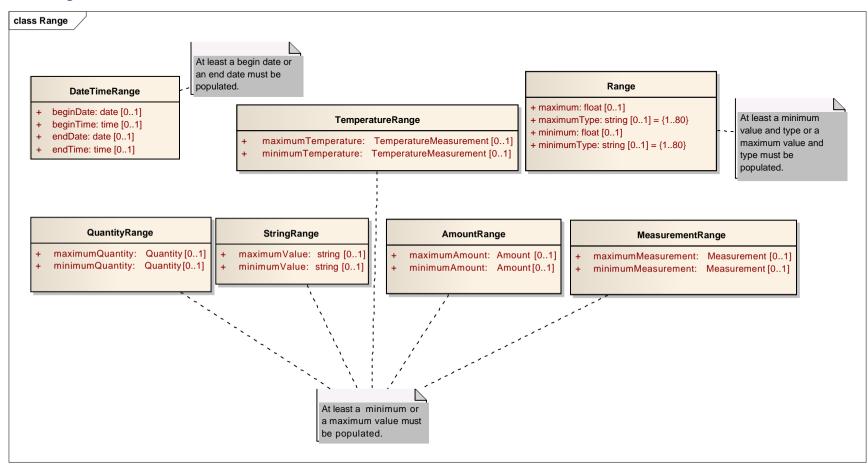
Content	Attribute / Role	Datatype /Secondary class	Multiplic ity	Definition	Requirements
ConsignmentIdentification				Information used to identify a consignment.	
Attribute	ginc	GINC	11	Global Identification Number for Consignment (GINC), the GS1 key used for the identification of consignments.	
Attribute	additionalConsignmen tldentification	AdditionalConsignmentIdentification	0*	Additional identification key used to identify a consignment.	
IndividualAssetIdentification				Information used to identify an asset.	
Attribute	giai	GIAI	11	Global Individual Asset Identifier (GIAI), the GS1 key used for the identification of individual assets.	
Attribute	additionalIndividualAs setIdentification	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	11	Serial Shipping Container Code (SSCC), the GS1 key used for the identification of logistic units.	
Attribute	additionalLogisiticUnit Identification	AdditionalLogisticUnitIdentification	0*	Additional (non-SSCC) identification attached to a shipping container or shipping package and used for logistical and traceability purposes.	
Partyldentification				Information used to identify a party or location.	
Attribute	gln	GLN	11	Global Location Number (GLN), the GS1 key used for the identification of parties and locations.	
Attribute	additionalPartyIdentifi cation	AdditionalPartyIdentification	0*	Identifier of the party or location, specified in addition to the GLN.	
ReturnableAssetIdentification				Information used to identify a	

Content	Attribute / Role	Datatype /Secondary class	Multiplic ity	Definition	Requirements
				returnable asset.	
Attribute	grai	GRAI	11	Global Returnable Asset Identifier (GRAI), the GS1 key used for the identification of returnable assets.	
Attribute	additionalReturnableA ssetIdentification	AdditionalReturnableAssetIdentification	0*	The additional identification Key used to identify returnable assets.	
ServiceRelationIdentification				Information used to identify a service relation.	
Attribute	gsrn	GSRN	11	Global Service Relation Number (GSRN), the GS1 key used for the identification of relationships between service providers and service recipients.	
Attribute	additionalServiceRela tionIdentification	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	11	Global Shipment Identification Number (GSIN), the GS1 key used for the identification of shipments.	
Attribute	additionalShipmentIde ntification	AdditionalShipmentIdentification	0*	Additional identification key used to identify a shipment.	
TradeltemIdentification				Provides the GTIN as the unique identifier for the item and optionally additional formats of non GTIN identifiers for the item.	
Attribute	gtin	GTIN	11	Global Trade Item Number (GTIN), the GS1 key used for the identification of trade items.	
Attribute	additionalTradeItemId entification	AdditionalTradeItemIdentification	0*	Alternative means to the Global Trade Item Number to identify a trade item.	



## 4.4.2. Range components

#### **Class Diagram**



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
AmountRange				Provides the difference or interval between the minimum and maximum value amount including the	

#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
				associated currency.	
Attribute	maximumAmount	Amount	01	Defines the upper limit required to qualify for the amount.	
Attribute	minimumAmount	Amount	01	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	01	Date specifying the first day for the date time range.	
Attribute	beginTime	time	01	Time specifying the start time for the date time range.	
Attribute	endDate	date	01	Date specifying the last day for the date time range.	
Attribute	endTime	time	01	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	01	Specifies the upper limit of the measurement range.	
Attribute	minimumMeasurement	Measurement	01	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	01	Specifies the upper limit of the quantity range.	
Attribute	minimumQuantity	Quantity	01	Specifies the lower limit of the quantity range.	
Range				Provides the difference or interval between the minimum and maximum value.	
Attribute	maximum	float	01	Specifies the upper limit of the quantity range.	
Attribute	maximumType	string	01	Identifies the type of measurement the range is expressed in.	
Attribute	minimum	float	01	Specifies the lower limit of the quantity range.	
Attribute	minimumType	string	01	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	01	Specifies the upper limit of the string range.	
Attribute	minimumValue	string	01	Specifies the lower limit of the string range.	



#### Business Message Standard (BMS),

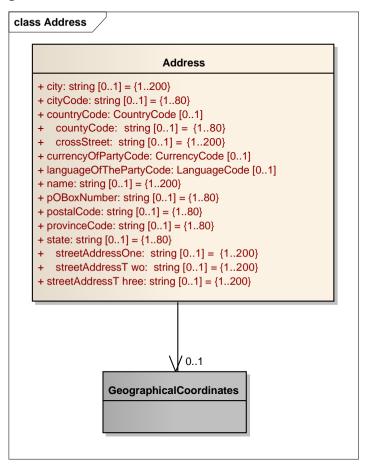
#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
TemperatureRange				Provides the difference or interval between the minimum and maximum temperature.	
Attribute	maximumTemperature	TemperatureMeasurement	01	Specifies the upper limit of the temperature range.	
Attribute	minimumTemperature	TemperatureMeasurement	01	Specifies the lower limit of the temperature range.	



#### 4.4.3. Address

#### **Class Diagram**



Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Address				The location at which a particular organization or person may be found or reached.	

#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Association		GeographicalCoordinates	01	Geographical coordinates for the address.	
Attribute	city □	string□	01	Text specifying the name of the city.	
Attribute	cityCode □	string□	01	Identifier for a city, expressed as a short code rather than the full name	
Attribute	countryCode □	CountryCode□	01	Code specifying the country for the address.	
Attribute	countyCode □	string□	01	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□	01	A street intersecting a main street (usually at right angles) and continuing on both sides of it □	
Attribute	currencyOfPartyCode □	CurrencyCode□	01	Code specifying the currency of an addressed party.	
Attribute	languageOfThePartyCode □	LanguageCode□	01	Code specifying the language of an addressed party.	
Attribute	name □	string□	01	The name of the party expressed in text. □	
Attribute	pOBoxNumber □	string□	01	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□	01	Text specifying the postal code for an address.	
Attribute	provinceCode □	string□	01	Text specifying a province in abbreviated format.	
Attribute	state □	string□	01	One of the constituent units of a nation having a federal government.   □	
Attribute	streetAddressOne □	string□	01	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□	01	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	01	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**

# Colour - colourCode: ColourCode [0..1] - colourDescription: Description80 [0..\*] - colourFamilyCode: ColourFamilyCode [0..1] (3.1.12) - colourTintCode: ColourTintCode [0..1] (3.1.13) - patternCode: PatternCode [0..1] (3.1.13)

#### **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□	01	Information specifying a colour in text and / or coded format.	
Attribute	colourDescription □	Description80□	0*	A description of a colour of an object.	
Attribute	colourFamilyCode	ColourFamilyCode	01	Indicates the family code of the product colour.	
Attribute	colourTintCode	ColourTintCode	01	Indicates the tint or shade code of the product colour.	
Attribute	patternCode	PatternCode	01	Indicates the pattern code of the product.	

## 4.4.5. Communication Channel



## class CommunicationChannel

#### CommunicationChannel

- + communicationChannelCode: CommunicationChannelCode
- + communicationValue: string = {1..200}
- + communicationChannelName: string [0..1] = {1..200}
- + isCommunicationChannelPreferred: NonBinaryLogicEnumeration [0..1] (3.1.14)

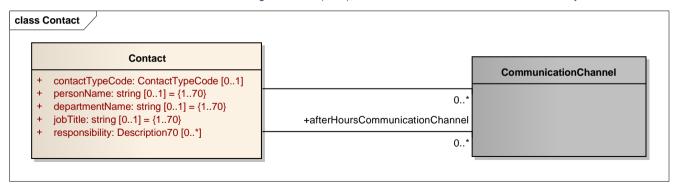
## **GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Requirements
CommunicationChannel				The channel or manner in which a communication can be made, such as telephone or email.	
Attribute	communicationChannelCode	CommunicationChannelCode	11	Code specifying the type of communication channel, for example TELEPHONE.	
Attribute	communicationValue	string	11	Text identifying the endpoint for the communication channel, for example a telephone number or an e-mail address.	
Attribute	communicationChannelName	string	01	The name of a specific communication channel for example Facebook, Twitter, etc.	
Attribute	isCommunicationChannelPreferred	NonBinaryLogicEnumeration	01	To show whether this is the preferred contact method by the supplier when there is more than one means of contact.	

## **4.4.6.** Contact

#### Business Message Standard (BMS),

#### Shared Common Library



Content	Attribute / Role	Datatype /Secondary class	Multiplici ty	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.	

#### Business Message Standard (BMS),

#### Shared Common Library

Association	afterHoursCommunicationChanne	CommunicationChannel	0*	The channel or manner in which a communication can be made with the contact after regular office hours.	
Attribute	contactTypeCode	ContactTypeCode	01	A code determining the role of the contact for example Dangerous Goods 24 Hour Contact.	
Attribute	personName	string	01	The name of the individual that can be contacted to provide additional information	
Attribute	departmentName	string	01	The nameof the department that can be contacted to provide additional information	
Attribute	jobTitle	string	01	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]

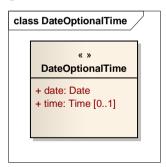
Content	Attribute / Role	Datatype /Secondary class	Mul tipli city	Definition	Requirements
CurrencyExchange RateInformation				Provides the currency exchange rate information. Rate at which one currency may be converted into another. Generally, one unit of the home currency is expressed in terms of another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

#### Shared Common Library

Content	Attribute / Role	Datatype /Secondary class	Mul tipli city	Definition	Requirements
				dollars needed to buy one Euro.	
Attribute	currencyConversionFromCode	CurrencyCode	11	ISO Code for the currency from which an amount is converted	
Attribute	currencyConversionToCode	CurrencyCode	11	ISO Code for the currency to which an amount is converted	
Attribute	exchangeRate	float	01	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	01	The date as of which the currency exchange rate is valid.	

## 4.4.8. Date Optional Time

## **Class Diagram**

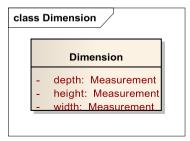


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DateOptionalTime				Provides a date with the optional ability to provide a time.	
Attribute	date	date	11	The specification of a day as calendar date.	
Attribute	time	time	01	The specification of a point in time during the day.	



## 4.4.9. Dimension

## **Class Diagram**



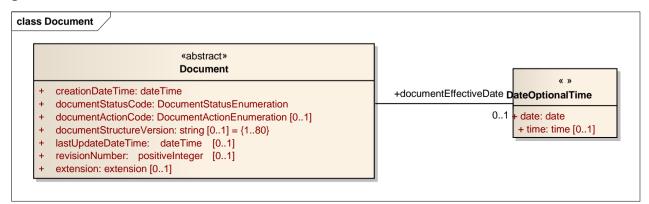
## **Dimension**

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Dimension				Provides the length, width, and depth of an item with their associated unit of measure.	
Attribute	depth	Measurement	11	Measurement of the distance between the front and the back.	
Attribute	height	Measurement	11	The vertical dimension from the lowest extremity to the highest extremity.	
Attribute	width	Measurement	11	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**



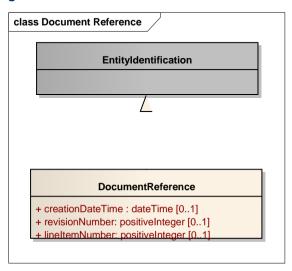
Content	Attribute / Role	Datatype /Secondary class	Mult iplic ity	Definition	Requirements
Document				Used to specify basic information about the content of the message including version number, creation date and time.	
Attribute	creationDateTime	dateTime	11	Date and time when the document was created.	
Attribute	documentStatusCode	DocumentStatusEnumeration	11	Indicates if the document is a copy or an original.	
Attribute	documentActionCode	DocumentActionEnumeration	01	Code specifying the action to be taken in the system of the recipient using the information in the document.	
Attribute	documentStructureVersion	string	01	Specification of the version of the standard on which the structure of the document is based, for example 3.0.	
Attribute	lastUpdateDateTime	dateTime	01	Date and time when the document was last updated.	
Attribute	revisionNumber	positiveInteger	01	Number to be used for identification and referencing of subsequent updates to a business document.	WR 12-153
Association	documentEffectiveDate	DateOptionalTime	01	The date that the document becomes effective from commercial or legal point of view.	WR 12-265
Extension		extension	01	Extension point for inclusion of additional information	



Г			through an autonoian to the decument	
- 1			through an extension to the document.	i
- 1				1

## 4.4.11. Document Reference

## **Class Diagram**

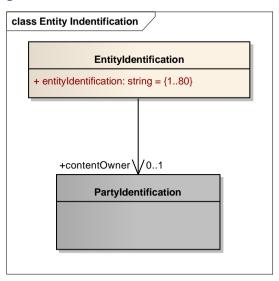


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DocumentReference				Information identifying a document and potentially a line within the document for referencing purposes.	
Generalization		EntityIdentification		Identification of the referenced business document.	
Attribute	creationDateTime	dateTime	01	Date and time of creation of the referenced document.	
Attribute	revisionNumber	positiveInteger	01	Number to be used for identification and referencing of subsequent updates to a business document.	WR 12-153
Attribute	lineItemNumber	positiveInteger	01	Number specifying a line in the referenced document.	



## 4.4.12. Entity Identification

## **Class Diagram**

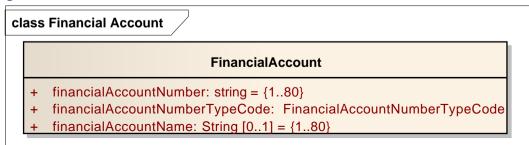


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
EntityIdentification				Information identifying a piece of information, such as an object or document.	
Association	contentOwner	Partyldentification	01	Uniquely identifies the creator of a piece of information.	
Attribute	entityIdentification	string	11	The unique identifier of the piece of information, such as the object identification or the document identification.	



## 4.4.13. Financial Account

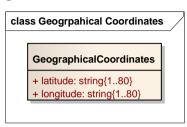
#### **Class Diagram**



### **GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Mul tipli city	Definition	Requirements
FinancialAccount				Information identifying a client's financial account with a financial institution.	
Attribute	financialAccountNumber	string	11	Text specifying the number of the financial account.	
Attribute	financialAccountNumberTypeCode	FinancialAccountNumberTypeCode	11	Identifies the type of financial account number.	
Attribute	financialAccountName	string	01	Text specifying the name of the financial account.	

## 4.4.14. Geographical Coordinates



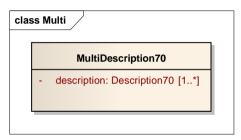


## **GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
GeographicalCoordinates				The longitude and latitude of a geographical location.	
Attribute	latitude	string	11	Angular distance North or South from the earth's equator measured through 90 degrees.	
Attribute	longitude	string	11	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**

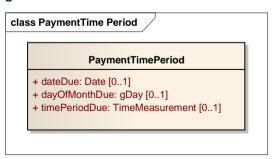


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MultiDescription70				Provides multiple iterations of descriptive text with a maximum length of 70 and an associated language code.	
Attribute	description	Description70	1*	Text content of the description.	



## 4.4.16. Payment Time Period

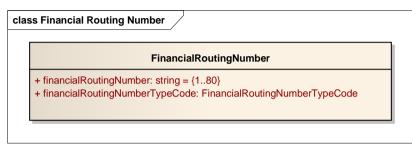
#### **Class Diagram**



## **GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PaymentTimePeriod				Provides the payment time period information.	
Attribute	dateDue	date	01	Calendar date specifying when the payment is due.	
Attribute	dayOfMonthDue	gDay	01	The time at which a payment is due, expressed as a day of the month.	
Attribute	timePeriodDue	TimeMeasurement	01	Measurement specifying the duration of the period within which the payment in due, for example within 10 days.	

## 4.4.17. Financial Routing Number



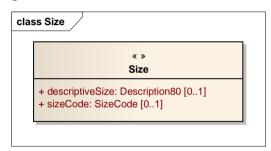


## **GDD Report**

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	11	Number assigned to a transaction in financial routing between parties.	
Attribute	financialRoutingNumber TypeCode	FinancialRoutingNumberTypeCode	11	Code specifying the type of financial routing, e.g. SWIFT.	

## 4.4.18. Size

## **Class Diagram**

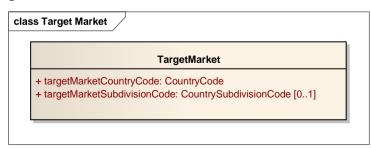


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Size				The physical dimensions or proportions of an object depicted as a code or a description.	
Attribute	descriptiveSize	Description80	01	A description of the size of an object.	
Attribute	sizeCode	SizeCode	01	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**

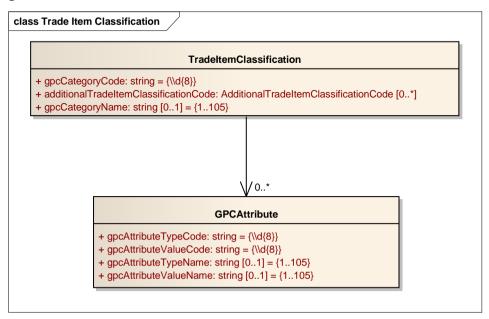


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TargetMarket				Information specifying the geographical area where a trade item is intended to be sold.	
Attribute	targetMarketCountryCode	CountryCode	11	The code that identifies the target market. The target market is at country level or higher geographical definition and is where a trade-item is intended to be sold.	
Attribute	targetMarketSubdivisionCode	CountrySubdivisionCode	01	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**

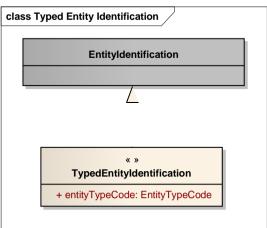


Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
TradeItemClassification				Information specifying the product class to which a trade item belongs and the classification system being applied.	
Association		GPCAttribute	0*	Contains information which identifies the GPC classification attribute for a trade item.	
Attribute	gpcCategoryCode	string	11	Code specifying a product category according to the GS1 Global Product Classification (GPC) standard.	
Attribute	additionalTradeItemClassificationCode	AdditionalTradeItemClassific ationCode	0*	Category code based on alternate classification schema chosen in addition to the Global Product Classification (GPC).	

#### Shared Common Library

Attribute	gpcCategoryName	string	01	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	11	Code specifying the type of the Global Product Classification (GPC) attribute, for example 20000081 - Grape Variety.	
Attribute	gpcAttributeValueCode	string	11	The GS1 provided code which identifies the Global Product Classification Attribute Value.	
Attribute	gpcAttributeTypeName	string	01	The GS1 provided text equivalent of the Global Product Classification Attribute Code.	
Attribute	gpcAttributeValueName	string	01	The GS1 provided text equivalent of the Global Product Classification Attribute Value Code.	

## 4.4.21. Typed Entity Identification





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	11	Code specifying the type of information being identified, for example a Despatch Advice.	



# 5. Business Message Examples

Not Applicable

## 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

# 7. Implementation Considerations

Not Applicable

# 8. Appendices

Not Applicable

# 9. Summary of Changes

## 9.1. BMS release 3.0

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

## 9.2. BMS release 3.1

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



Change	BMS Doc Version
New class anyURI Changes to Address class:	
Change to Document class:	
Change to Document Reference class:	
CODELIST CHANGES	
AdditionalTradeItemIdentificationCode	
Added values (ARTG_ID, AU_PROSTHESES_REBATE_CODE, NUMERO_RDN)	
Deprecated NDC AdditionalPartyldentificationCode 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).	
<ul> <li>Name for code value 43 from 'US FDA Product Code Classification Database' to 'US FDA PCCD'</li> </ul>	
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	
<ul> <li>Added PaymentTermsTypeCode and AllowanceChargeTypeCode.data types and associated code lists. Removed from eCom Common.</li> </ul>	
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).	



Change		BMS Doc Version
SUPPL	d definitions for AdditionalTradeltemIdentificationCode values of IER_ASSIGNED, MODEL_NUMBER, FACTURER_PART_NUMBER.	1.1
•	Added Code 11 (IFPS) to ColourCodeListCode	1.2
•	Added Code 63 (NCM) to AdditionalTradeItemClassificationCode	
•	Added the following codes to the TaxCategoryCode (REDUCTION_IN_BASE, REDUCTION_IN_TAX_RATE, 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).	
•	Added UCC_COMMUNICATION_IDENTIFICATION, UNKNOWN, UN_LOCATION_CODE to Additional Party Identification.	1.3
•	Added BREEDER, CUTTER, FATTENER, GROWER, MINCER, SLAUGHTERER to Party Role List.	
•	Added G_HC to Nutrient Code List	
•	Added following codes for December ECL:64 (CORE DIY), 65 (FDA Preferred Term Code), 66 (Medsafe Risk Classification), 67 (Medsafe Regulatory Classification).	1.4
•	Nutrient Type Code: Added GINSENG for Dec ECL	
•	Size Code List Code: Added value 4 (EU/Nappy Diaper Size) for ECL.	
•	Additional Trade Item Classification: Updated definition of code 58 to match ECL.	
•	AdditionalTradeItemClassificationCodeListCode	1.5
	<ul> <li>Changed definition of Code: 58</li> </ul>	
	o Added codes 68, 69	
•	AdditionalTradeItemIdentificationTypeCode	
	<ul> <li>Added codes: AIG, BFR, FDA_MEDICAL_DEVICE_LISTING, FDA_PRODUCT_CODE, ICCBBA, NZ_MEDICINES_TERMINOLOGY_CODE,</li> </ul>	
PHARM	IACODE_CH, WAND_NUMBER	
	Changed definition of code: INDUSTRY_ASSIGNED	
•	CommunicationChannelCode	
	Added code: MOBILE_WEBSITE	
•	ContactTypeCode	
	Added Codes: DIS, EXP,IMP, WLS	
•	NutrientTypeCode	
•	Added codes: X_SALATRIM, X_CASNWH, X_FUNS, X_PROSOL, X_SUCRA	
•	Responsible Agency Code	
•	<ul> <li>Added codes: 9SE, ATO, IRD, LEV, REV</li> <li>Removed code lists and enumerations and added link to a separate code list document.</li> </ul>	1.6



## 9.3. BMS release 3.1.12

Change	BMS Doc Version
Updated Section 4.4.4 ColourCode – added new attribute ColourFamilyCode	1.7

## 9.4. BMS release 3.1.13

Change	BMS Doc Version
Updated Section 4.4.4 ColourCode – added new attribute ColourTintCode and PatternCode	1.8

## 9.5. BMS release 3.1.14

Change	<b>BMS Doc Version</b>
WR 18-000303 – Section 4.4.5 - add new attribute isCommunicationChannelPreferred to the CommunicationChannel class	1.9



