Consumption Report

Business Message Standard (BMS)

Release 3.2

01-Dec-2014, Issue 1

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS) – Consumption Report
BMS Release	3.2
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Work Group Name	eCom SMG
BMS Template Version	2.4

Work Request Reference

Date of WR Submission to GSMP:	WR Submitter(s):	Refer to Work Request (WR) Number(s):
20-Aug-2008	GS1 Global Office	08-000209
13-Feb-2008	Hewlett-Packard	08-000019
05-Nov-2004	GS1 Global Office	04-000211
07-Feb-2014	GS1 Germany	14-000021
20-Mar-2014	GS1 Slovenia	14-000044
25-Jun-2014	GS1 Global Office	14-000110

Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
BRAD Upstream Standards – Despatch, Receipt & Consumption	29-Nov-2004	0.1.1

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
12-Jan-2012	BMS 3.0 – Issue 1	Mark Van Eeghem	BMS Release 3.0	See summary of changes
01-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Release 3.1	See summary of changes
01-Dec-2014	BMS 3.2 – Issue 1	Ewa Iwicka	BMS Release 3.2	See summary of changes

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Table of Contents

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1. Business Domain View

1.1. Introduction

Message Definition

The Consumption Report message enables the buyer needs to communicate the consumed products (e.g. used materials or sold goods) to the seller.

Principles

This information is required in consignment stock scenarios, where the invoice will be based on the consumed quantities rather than on the delivered quantities.

1.2. References

Reference Name	Description
BMS eCom Domain Common Library Release 3.2	The documented design of components that are used in multiple messages within the eCom domain.
BMS Shared Common Library Release 3.2	The documented design of components that are used in multiple messages within the eCom domain and GDSN.
BRAD Upstream Standards – Despatch, Receipt & Consumption 0.1.1	

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Deliver (Consignment)
Official Constraints	None
System Capabilities	GS1 System

3. Business Transaction View

3.1. Business Transaction – Consumption Report

Use Case Diagram
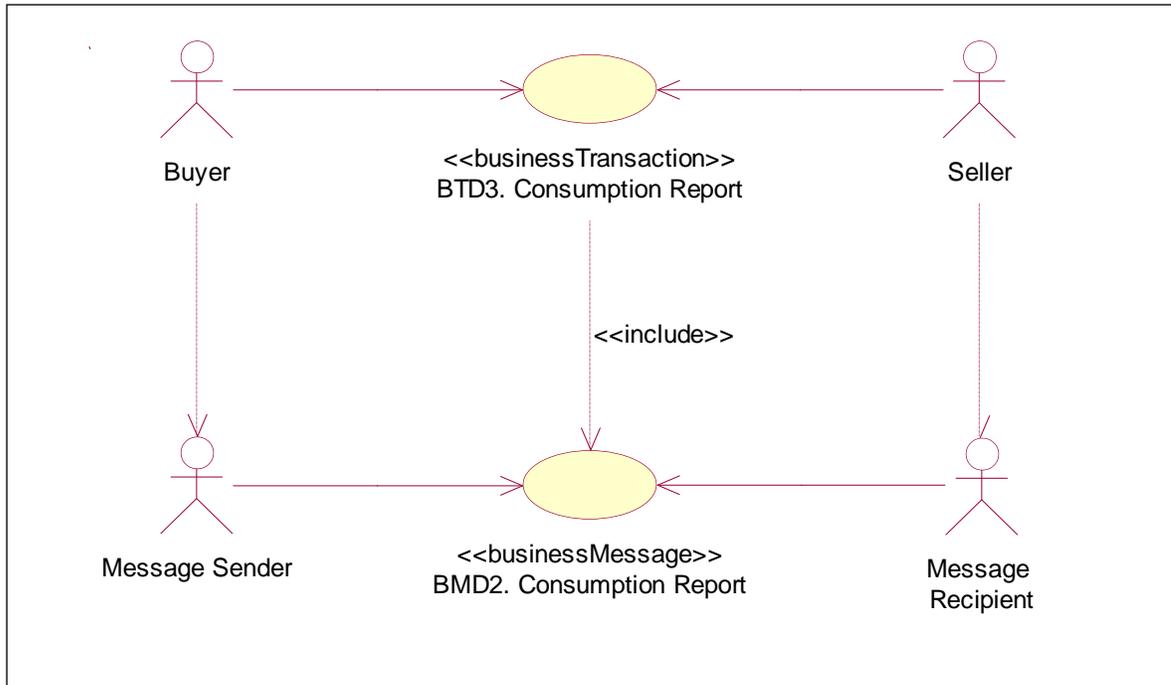
Use Case Description

Use Case ID	BTD3
Use Case Name	Consumption Report
Use Case Description	The buyer communicates the consumed goods to the seller.
Actors (Goal)	Buyer: To send the consumption report. Seller: To receive the consumption report.
Performance Goals	
Preconditions	Goods Consumption: CALCULATED
Post conditions	Goods Consumption: COMMUNICATED

Scenario	Begins when: The Buyer has calculated the goods that were consumed during the consumption period. Continues with: | Step #	Actor	Activity Step
---	---	---
	Buyer	Sends Consumption Report message to the Seller.
	Seller	Receives Consumption Report Message	 Ends when:
Alternative Scenario	*Not Applicable*
Business Transaction Rules	*Not Applicable*

## Activity Diagram(s)

Not Applicable

Sequence Diagram(s) (optional)

Not Applicable

4. Business Information View

4.1. Consumption Report

Class Diagram
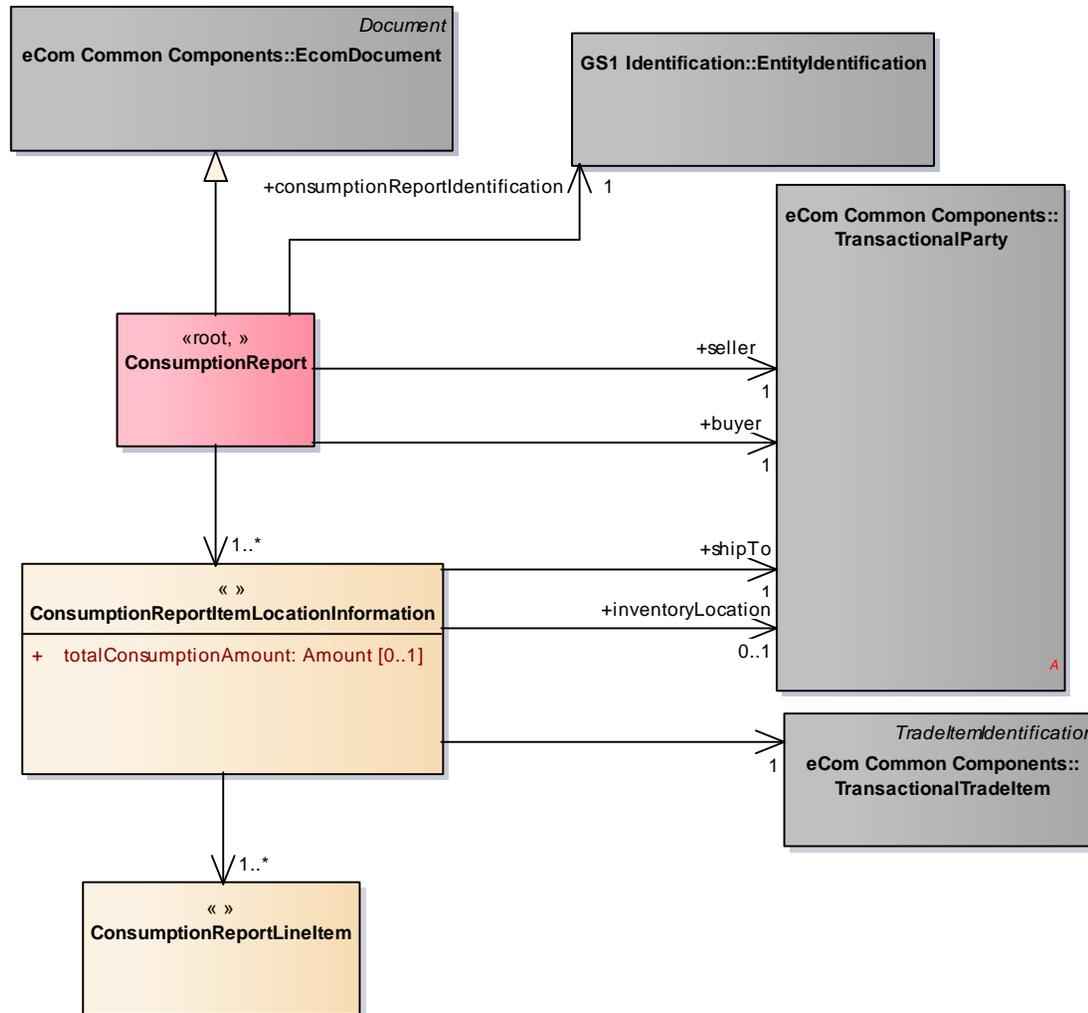
GDD Report

The content of the ConsumptionReport class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConsumptionReport

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ConsumptionReport				The Consumption Report message enables the buyer needs to communicate the consumed products (e.g. used materials or sold goods) to the seller. This information is required in consignment stock scenarios, where the invoice will be based on the consumed quantities rather than on the delivered quantities.	
Association		ConsumptionReportItem LocationInformation	1..*	Contains the consumption information for given trade items and locations for specific time periods.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	14-000110
Association	buyer	TransactionalParty	1..1	Contains the identification of the party that is buying the goods.	
Association	seller	TransactionalParty	1..1	Contains the identification of the party that is selling the goods.	
Association	consumptionReport Identification	EntityIdentification	1..1	Contains the unique identifier of the business document.	

## 4.2. Consumption Report Line Item

Class Diagram
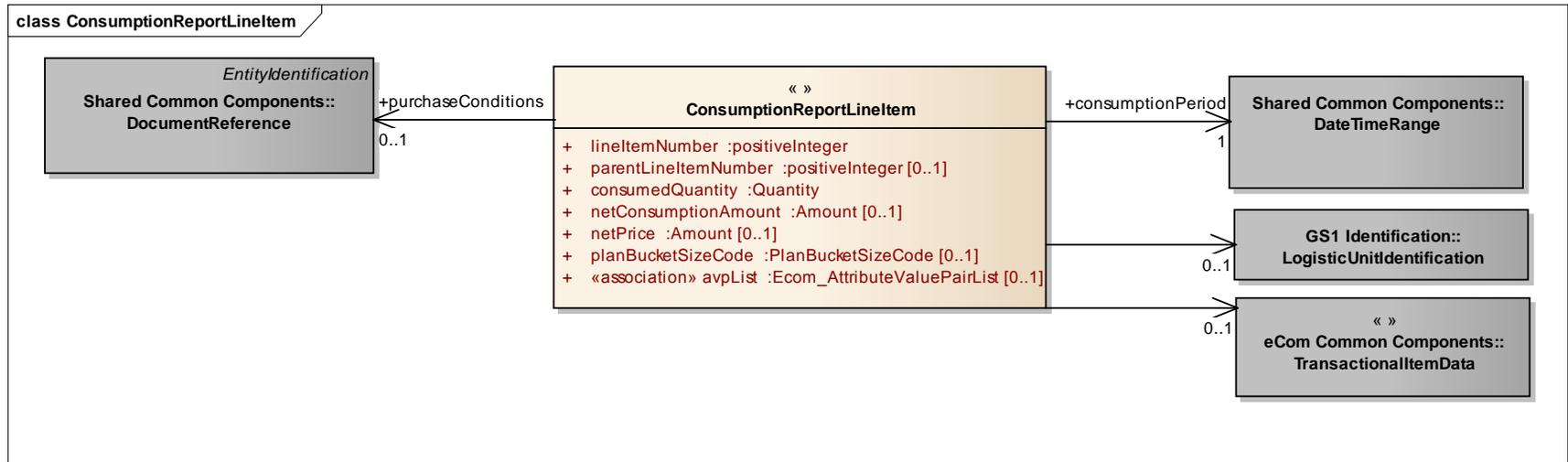
GDD Report

The content of the ConsumptionReportLineItem class, its structure and component definitions can be accessed in the Global Data Dictionary:

http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConsumptionReportLineItem

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ConsumptionReport LineItem				Contains the consumption information for the specified time period.	
Association	consumptionPeriod	DateTimeRange	1..1	Contains the start and end dates and optionally start and end times of the period in which the goods were consumed.	
Association		LogisticUnitIdentification	0..1	Contains the identification of the logistic unit item that applies to the reported goods consumption.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		TransactionalItemData	0..1	Contains additional item data such as batch number and best before date that apply to the reported goods consumption.	
Association	purchaseConditions	DocumentReference	0..1	Contains a reference to the commercial agreement under which the goods are supplied.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Consumption Report Line Item.	
Attribute	parentLineItemNumber	positiveInteger	0..1	The number of line item containing information about the parent of the current item. It allows establishing hierarchical link between the two items.	14-000021 14-000044
Attribute	consumedQuantity	Quantity	1..1	The number of units consumed.	
Attribute	netConsumptionAmount	Amount	0..1	The agreed amount to be paid for the total number of units (E.g. KG, EA, Pallet) in agreed currency (e.g. USD, EUR, SFR) of the purchased or consumed goods.	
Attribute	netPrice	Amount	0..1	The agreed amount to be paid per unit (E.g. KG, EA, Pallet) in agreed currency (e.g. USD, EUR, SFR) of the purchased or consumed goods.	
Attribute	planBucketSizeCode	PlanBucketSizeCode	0..1	Contains a code describing the size of the consumption period.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	14-000110

Note: Reference Shared Common Library Business Message (BMS) Release 3.2.0 and eCom Domain Common Library Business Message (BMS) Release 3.2.0 for all common information.

4.3. Code Lists

Class	Codelist	Referenced in
ConsumptionReportLineItem	PlanBucketSizeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PlanBucketSizeCode

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

5. Business Message Examples

5.1. Example

This is an example of a Consumption Report message. The message is sent on July 17th 2011 at 11.45 AM, for goods received on April 11th at 11PM. The message is identification number is CR3548.

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
4098765000010	Seller
5412345000990	Ship to X
5412345000112	Ship to Y

The consumption report is sent by the Buyer (GLN 5412345000013) to the Seller (GLN 4098765000010).

For informational purposes the manufacturer includes the name of his material requirements planner (Mr. Bryce).

The consumption report is for two delivery sites, X (Ship To 5412345000990) and Y (Ship To 5412345000112).

The consumption report is for one item, A (GTIN 40987650000223).

For delivery site X the reporting period is July 01-07.

For delivery site Y the reporting period is July 01, 7:00 AM – July 07, 5:00 PM

For item A and delivery site X the reported consumption is:

- 15 units.

  The contract to be used for invoicing the reported consumption (PC356987) was issued by the business unit of the Seller (GLN 4098765000010). Within the contract line 23 refers to this item.

  For item A and delivery site Y the reported consumption is:

- 22 units.

  The contract to be used for invoicing the reported consumption is the same as for delivery site X.

Message Example

Attribute	Value
ConsumptionReport	

Attribute	Value
creationDateTime	2011-07-17 11:45
documentStatusCode	ORIGINAL
EntityIdentification (+consumptionReportIdentification)	
entityIdentification	CR3548
PartyIdentification (+contentOwner)	
gln	5412345000013
TransactionalParty (+seller)	
gln	4098765000010
TransactionalParty (+buyer)	
gln	5412345000013
Contact	
responsibility	Material Requirements Planner
personName	Bryce Young
ConsumptionReportItemLocationInformation *1	
TransactionalParty (+shipTo)	
- gln	5412345000990
TransactionalTradeItem	
- gtin	40987650000223
ConsumptionReportLineItem *1.1	
- lineItemNumber	1
- consumedQuantity (value, unitOfMeasure)	15
- planBucketSizeCode	WEEK
DateTimeRange(+consumptionPeriod)	
- beginDate	2011-07-01
- endDate	2011-07-07
DocumentReference (+purchaseConditions)	
- entityIdentification	PC356987
- lineItemNumber	23
PartyIdentification (+contentOwner)	
- gln	4098765000010
ConsumptionReportItemLocationInformation *2	
TransactionalParty (+shipTo)	
- gln	5412345000112
TransactionalTradeItem	
- gtin	40987650000223
*ConsumptionReportLineItem *2.1*	
- lineItemNumber	2

Attribute	Value
- consumedQuantity	22
- planBucketSizeCode	WEEK
DateTimeRange (+consumptionPeriod)	
- beginDate	2011-07-01 07:00
- endDate	2011-07-07 17:00
DocumentReference (+purchaseConditions)	
- entityIdentification	PC356987
- lineItemNumber	23
PartyIdentification (+contentOwner)	
- gln	4098765000010

6. Implementation Considerations

6.1. User Guide

The Functional User Guide contains more information about the structure and content of the message:
http://www.gs1.org/docs/ecom/xml/3/3.2/eCom-Trade_messages.html#ConsumptionReport

6.2. Message Specific Considerations

Not Applicable

7. 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.

7.1. BMS Release 3.0

Change	BSD Version	Associated CR Number
Updated BMS for Major Release 3.0 Updated document to reflect changes in modelling methodology.	Issue 1.0.0	Not Applicable

Change	BSD Version	Associated CR Number
Updated for BMS Publication (Release 3.0.0): Changed status from Draft to Approved Removed copyright year in footer of document Updated architectural principles section to correct fields.	Issue 1.0.0	Not Applicable

7.2.   BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.3.   BMS Release 3.2

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels **class ConsumptionReport - maintenance view** «root, » **ConsumptionReport** *maintenance* Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)	14-000110
■ Added a reference to parent line number to all LineItem classes, to support hierarchical items (WRs 14-021 & 14-044) ■ Added Attribute Value Pair at the root, line item and sub line item levels (WR 14-110) **class ConsumptionReportLineItem - maintenance view** « » **ConsumptionReportLineItem** + lineItemNumber :positiveInteger + parentLineItemNumber :positiveInteger [0..1] + consumedQuantity :Quantity + netConsumptionAmount :Amount [0..1] + netPrice :Amount [0..1] + planBucketSizeCode :PlanBucketSizeCode [0..1] + «association» avpList :Ecom_AttributeValuePairList [0..1] *maintenance* Change: (Verified) 3.2 added +avpList (WR 14-110) Change: (Verified) 3.2 added +parentLineItemNumber (WR 14-021 & 14-044)	14-000021 14-000044 14-000110

8. Appendices

Not Applicable

9. Acknowledgements

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

9.1.1. Work Group

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.
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

Function	Name	Company / organisation
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
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

9.1.2. Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Champion	GS1 Global Office
Standards Content Lead	Coen Janssen, Ewa Iwicka	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Eric Kauz	GS1 Global Office