



# Consumption Report Business Message Standard (BMS)

*Release 3.1*

*1-May-2013, Issue 1*



## Document Summary

Document Item	Current Value
Document Title	Consumption Report - Business Message Standard (BMS)
BMS Release	3.1
Document Version	Issue 1, 1-May-2013
Work Group Name	eCom SMG
BMS Template Version	2.3

## Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
20-Aug-2008	John Ryu	08-000209
13-Feb-2008	Michal Martinko, Hewlett-Packard	08-000019
05-Nov-2004	GS1	04-000211

## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD 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 1.0.0	Mark Van Eeghem	BMS Publication for Release 3.0.0	See summary of changes section.
1-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Publication for Release 3.1	See summary of changes section.

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# Table of Contents

<b>1. Business Domain View</b>	<b>4</b>
1.1. Problem Statement / Business Need	4
1.2. Objective	4
1.3. Audience	4
1.4. References	4
1.5. Acknowledgements	4
1.5.1. Work Group	4
1.5.2. Development Team Members	6
<b>2. Business Context</b>	<b>6</b>
<b>3. Business Transaction View</b>	<b>7</b>
3.1. Business Transaction – Consumption Report	7
<b>4. Business Information View</b>	<b>9</b>
4.1. Consumption Report	10
4.2. Consumption Report Line Item	12
4.3. Code Lists	15
<b>5. Business Message Examples</b>	<b>15</b>
<b>6. Implementation Considerations</b>	<b>17</b>
<b>7. Appendices</b>	<b>17</b>
<b>8. Summary of Changes</b>	<b>17</b>
8.1. BMS Release 3.0	17
8.2. BMS Release 3.1	17

# 1. Business Domain View

## 1.1. Problem Statement / Business Need

In consignment business scenarios the buyer needs to communicate the consumed materials or sold goods to the seller.

## 1.2. Objective

This standard defines the transaction model and data model for the following business messages:

- Consumption Report

## 1.3. Audience

- Manufacturers
- Suppliers
- Logistic Service Providers

## 1.4. References

Reference Name	Description
BMS eCom Domain Common Library Release 3.1	The documented design of components that are used in multiple messages within the eCom domain.
BMS Shared Common Library Release 3.1	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	

## 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. Work Group

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Function	Name	Company / organisation
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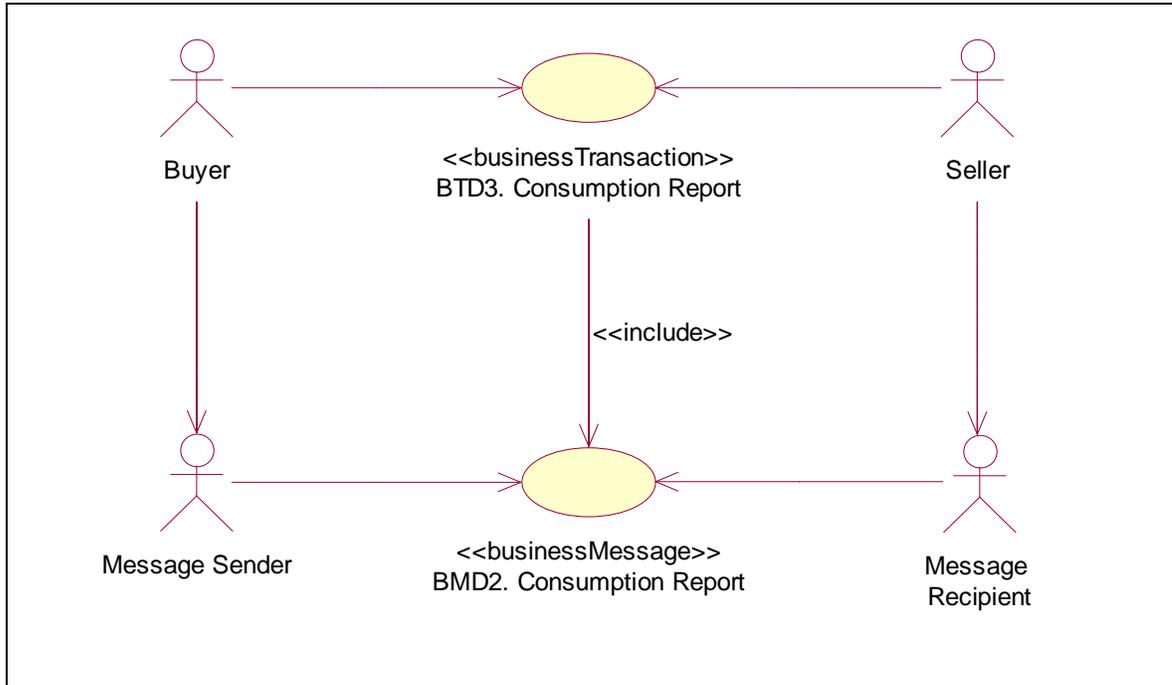
## 2. Business Context

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

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

<b>Scenario</b>	<p>Begins when: The Buyer has calculated the goods that were consumed during the consumption period.</p> <p>Continues with:</p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td></td> <td>Buyer</td> <td>Sends Consumption Report message to the Seller.</td> </tr> <tr> <td></td> <td>Seller</td> <td>Receives Consumption Report Message</td> </tr> </tbody> </table> <p>Ends when:</p>	Step #	Actor	Activity Step		Buyer	Sends Consumption Report message to the Seller.		Seller	Receives Consumption Report Message
Step #	Actor	Activity Step								
	Buyer	Sends Consumption Report message to the Seller.								
	Seller	Receives Consumption Report Message								
<b>Alternative Scenario</b>	<i>Not Applicable</i>									
<b>Business Transaction Rules</b>	<i>Not Applicable</i>									

### Activity Diagram(s)

Not Applicable

### Sequence Diagram(s) (optional)

Not Applicable

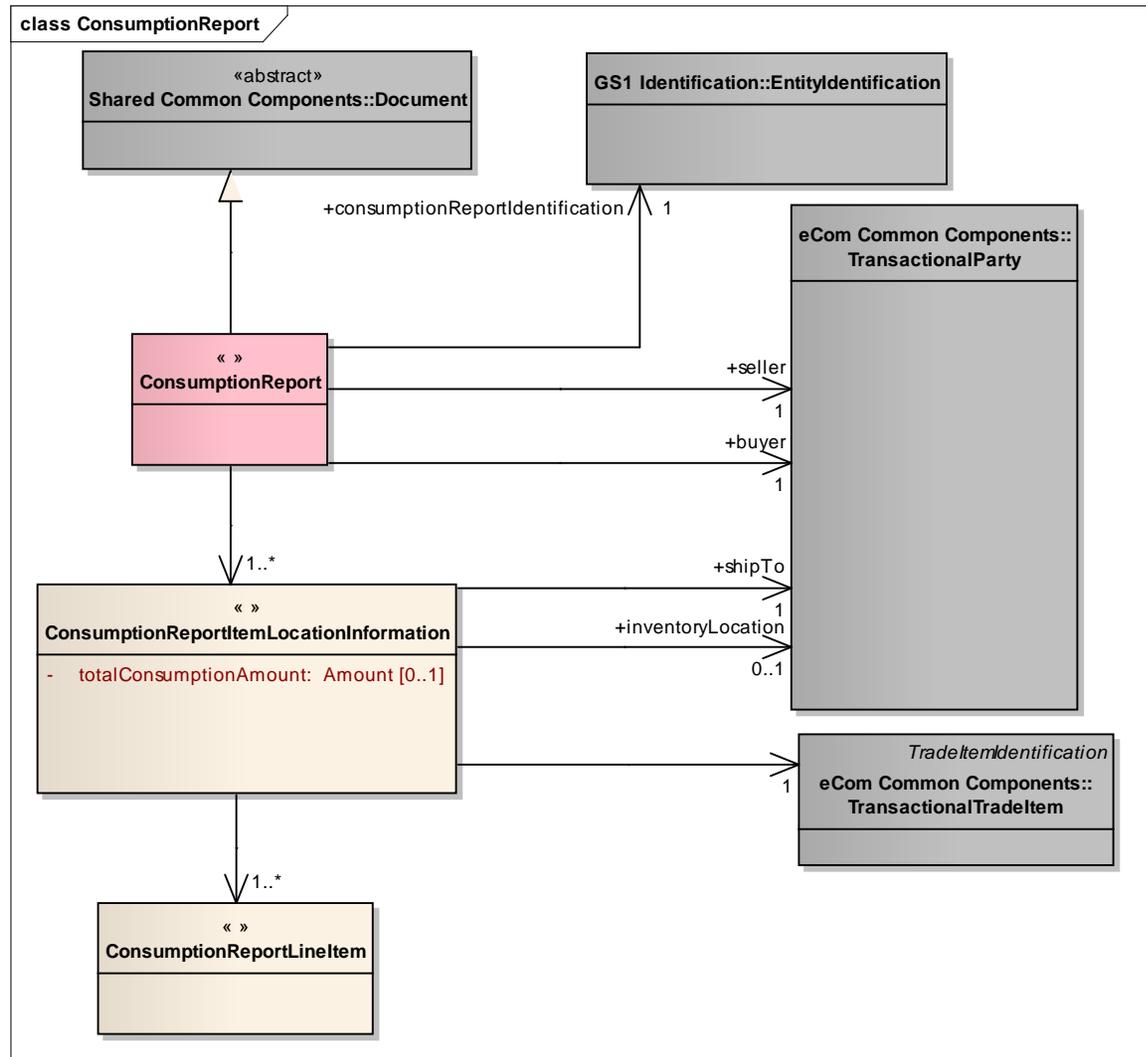
## 4. Business Information View



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

## 4.1. Consumption Report

### Class Diagram



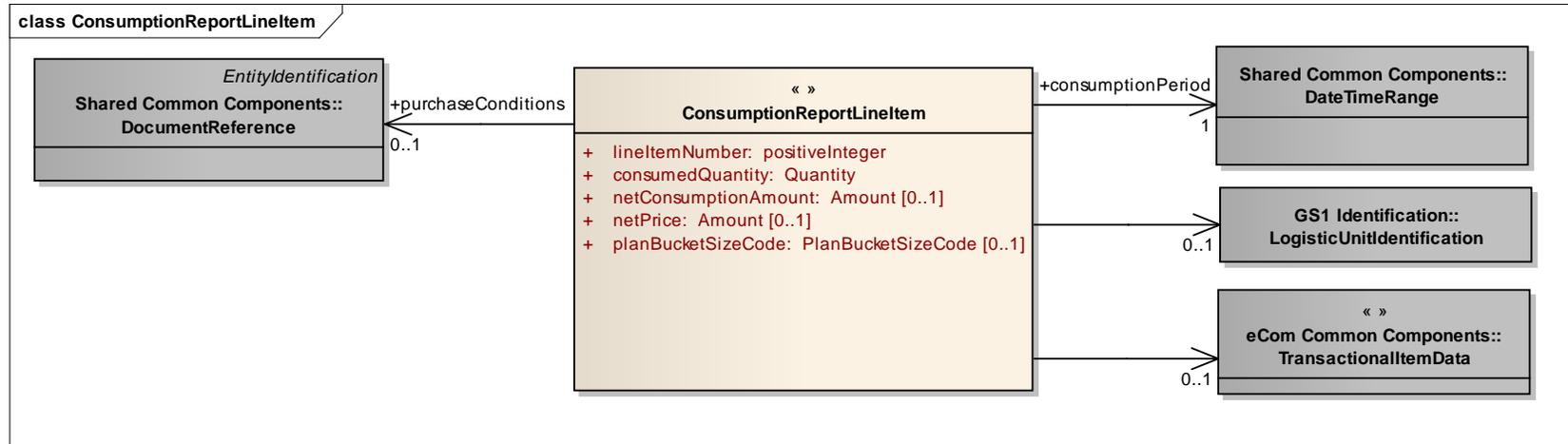
**GDD Report**

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	seller	TransactionalParty	1..1	Contains the identification of the party that is selling the goods.	
Association	buyer	TransactionalParty	1..1	Contains the identification of the party that is buying the goods.	
Association	consumptionReportIdentification	EntityIdentification	1..1	Contains the unique identifier of the business document.	
Association		ConsumptionReportItemLocationInformation	1..*	Contains the consumption information for given trade items and locations for specific time periods.	
Generalization		Document		Used to specify basic information about the content of the message including version number, creation date and time.	
ConsumptionReportItemLocationInformation				Contains the consumption information for given trade items and locations for specific time periods.	
Association		TransactionalTradeItem	1..1	Contains the identification of the trade item that applies to the reported goods consumption.	
Association	shipTo	TransactionalParty	1..1	Contains the identification of the location to which the items were shipped by the seller.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		ConsumptionReportLineItem	1..*	Contains the consumption information for the specified time period.	
Association	inventoryLocation	TransactionalParty	0..1	Identification of the physical place at the receiving side where the items are stored.	
Attribute	totalConsumptionAmount	Amount	0..1	The agreed amount to be paid in agreed currency (e.g. USD, EUR, SFR) of the purchased or consumed goods for the total order per location.	

## 4.2. Consumption Report Line Item

### Class Diagram



**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
ConsumptionReportLineItem				Contains the consumption information for the specified time period.	
Association		TransactionallItemData	0..1	Contains additional item data such as batch number and best before date that apply to the reported goods consumption.	
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	purchaseConditions	DocumentReference	0..1	Contains a reference to the commercial agreement under which the goods are supplied.	
Association		LogisticUnitIdentification	0..1	Contains the identification of the logistic unit item that applies to the reported goods consumption.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Consumption Report Line Item.	
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.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	planBucketSizeCode	PlanBucketSizeCode	0..1	Contains a code describing the s.ize of the consumption period.	

## 4.3. Code Lists

- Note:** Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for all Code Lists

Class	Codelist	Referenced in
ConsumptionReportLineItem	PlanBucketSizeCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

## 5. Business Message Examples

The following is an example of a consumption report message. The message is sent out on February 9<sup>th</sup> at 11 AM. The message is identified with the unique identifier 2005001. The content owner is the sending party, in this case the manufacturer (Buyer 8712345678913).

The consumption report is sent by the manufacturer (Buyer 8712345678913) to the material supplier (Seller 8812345678903).

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 8712345670009) and Y (Ship To 8712345678951).

The consumption report is for one item, A (GTIN 08712345678906).

For delivery site X the reporting period is February 11-17.

For delivery site Y the reporting period is February 11, 7:00 AM – February 15, 5:00 PM

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

- 700 units.

The contract to be used for invoicing the reported consumption (2004000012) was issued by the business unit of the material supplier (content owner 8712345678999). Within the contract line 23 refers to this item.

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

- 300 units.

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

ConsumptionReport	
- creationDateTime	2005-02-09T11:00:00
- documentStatusCode	ORIGINAL
<b>EntityIdentification (+consumptionReportIdentification)</b>	
- entityIdentification	2005001
<b>PartyIdentification(+contentOwner)</b>	
- gln	8712345678913

<b>ConsumptionReport</b>	
<b>TransactionalParty (+seller)</b>	
- gln	8812345678903
<b>TransactionalParty (+buyer)</b>	
- gln	8712345678913
<b>Contact</b>	
responsibility	Material Requirements Planner
personName	Bryce Young
<b>ConsumptionReportItemLocationInformation *1</b>	
<b>TransactionalParty (+shipTo)</b>	
- gln	8712345670009
<b>TransactionalTradeItem</b>	
- gtin	08712345678906
<b>ConsumptionReportLineItem *1.1</b>	
- lineItemNumber	1
- consumedQuantity (value, unitOfMeasure)	700
- planBucketSizeCode	WEEK
<b>DateTimeRange(+consumptionPeriod)</b>	
- beginDate	2005-02-11
- endDate	2005-02-17
<b>DocumentReference (+purchaseConditions)</b>	
- entityIdentification	2004000012
- lineItemNumber	23
<b>PartyIdentification (+contentOwner)</b>	
- gln	8712345678999
<b>ConsumptionReportItemLocationInformation *2</b>	
<b>TransactionalParty (+shipTo)</b>	
- gln	8712345678951
<b>TransactionalTradeItem</b>	
- gtin	08712345678906
<b>ConsumptionReportLineItem *2.1</b>	
- lineItemNumber	2
- consumedQuantity	300
- planBucketSizeCode	WEEK
<b>DateTimeRange (+consumptionPeriod)</b>	
- beginDate	2005-02-11T07:00:00
- endDate	2005-02-15T17:00:00
<b>DocumentReference (+purchaseConditions)</b>	

ConsumptionReport	
- entityIdentification	2004000012
- lineItemNumber	23
<b>PartyIdentification (+contentOwner)</b>	
- gln	8712345678999

## 6. Implementation Considerations

Not Applicable

## 7. Appendices

Not Applicable

## 8. Summary of Changes

### 8.1. 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
<b>Updated for BMS Publication (Release 3.0.0):</b> 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

### 8.2. BMS Release 3.1

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