



Consumption Report

Business Message Standard (BMS)

Release 3.1

1-May-2013, Issue 1



Document Summary

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Document Change History

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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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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

Function	Name	Company / organisation
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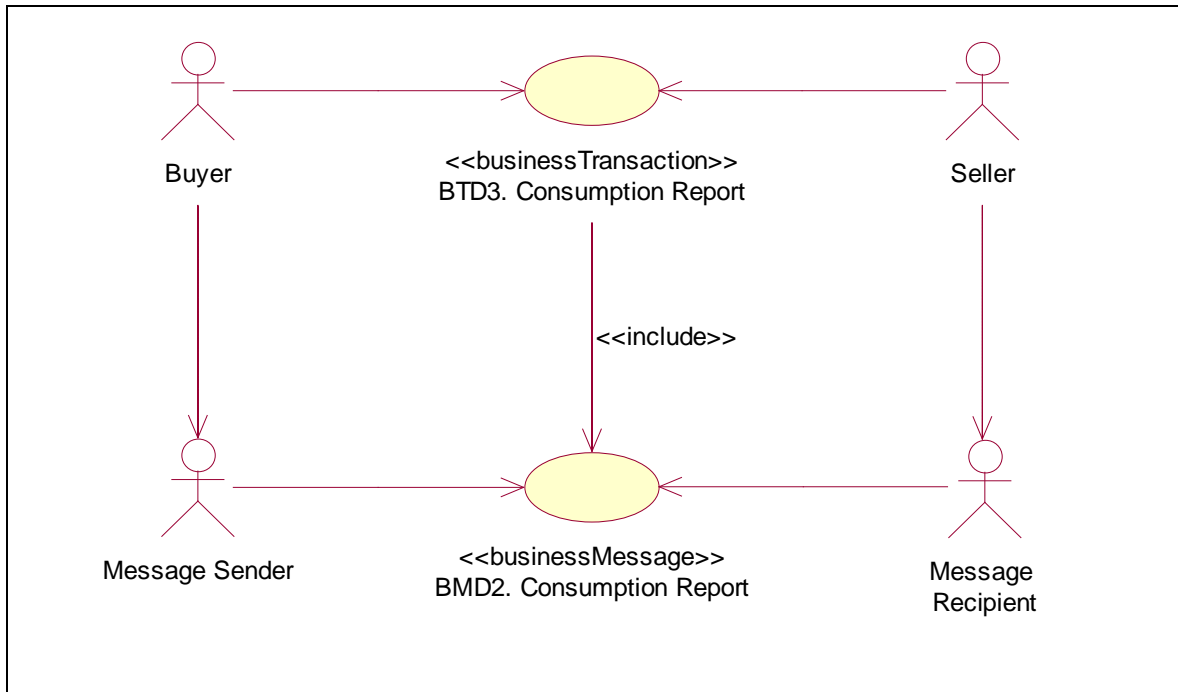
2. Business Context

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

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	<p>Begins when:</p> <p>The Buyer has calculated the goods that were consumed during the consumption period.</p> <p>Continues with:</p> <table><tr><td>Step #</td><td>Actor</td><td>Activity Step</td></tr><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></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								
Alternative Scenario	<i>Not Applicable</i>									
Business Transaction Rules	<i>Not Applicable</i>									

Activity Diagram(s)

Not Applicable

Sequence Diagram(s) (optional)

Not Applicable

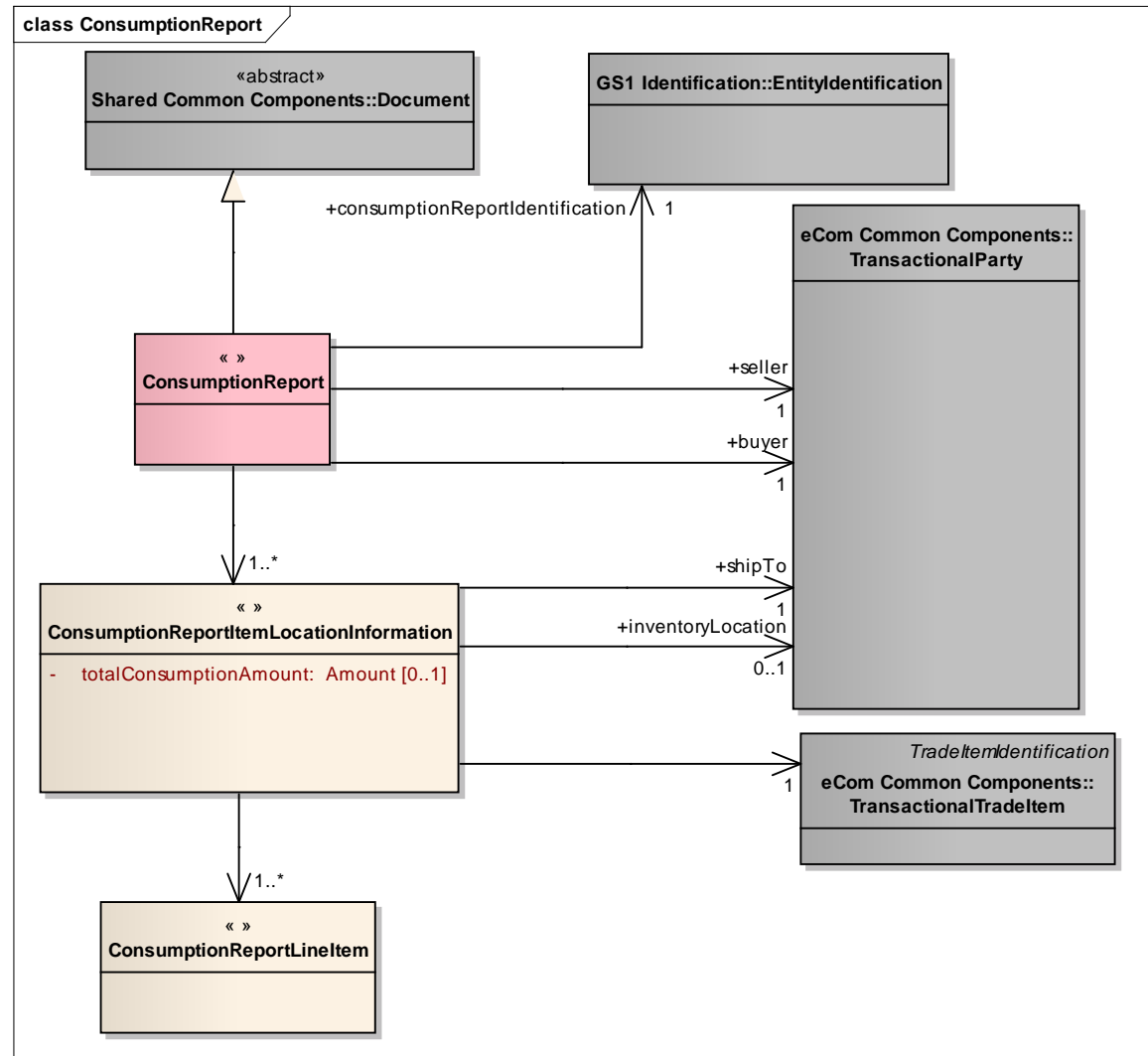
4. Business Information View



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



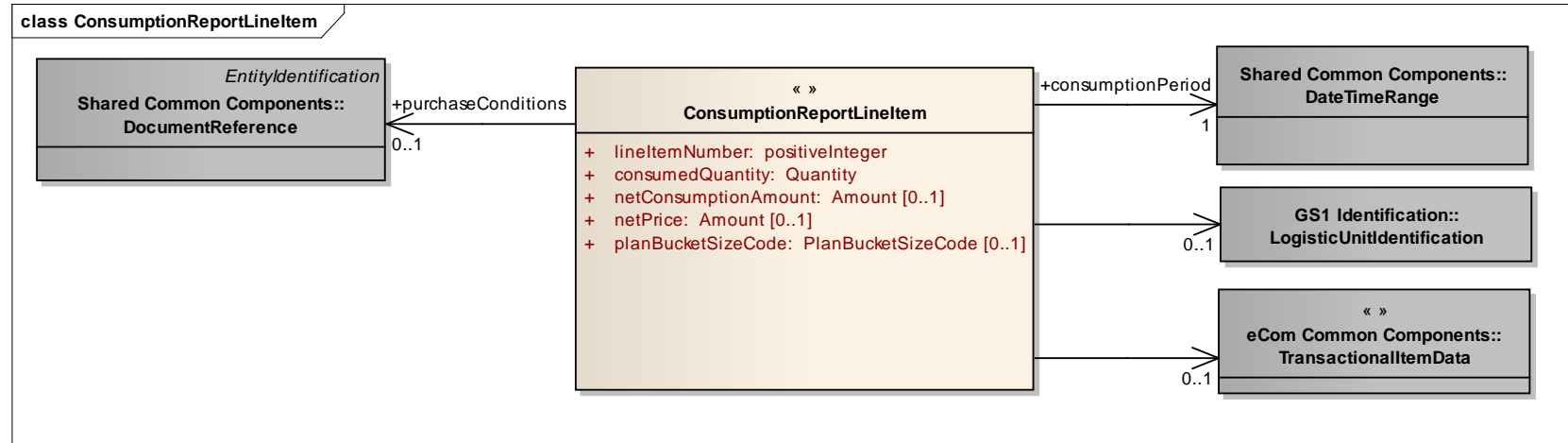
GDD Report

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		TransactionalItemData	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 9th 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
EntityIdentification (+consumptionReportIdentification)	
- entityIdentification	2005001
PartyIdentification(+contentOwner)	
- gln	8712345678913

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

ConsumptionReport	
- entityIdentification	2004000012
- lineItemNumber	23
PartyIdentification (+contentOwner)	
- 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
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

8.2. BMS Release 3.1

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