



# Business Message Standard (BMS) Goods Requirements

BMS Release: 2.5.0, BRG Name: eCom

*Issue 0.2.1, 06-Feb-2009*



## Document Summary

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20 –Aug- 2008	John Ryu, GS1	08-000209
06-Sep-2006	Eric Maree, Accenture	07-000320
11-May-2004	GUSI	04-000211

## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
BRAD Upstream Standards – Demand & Supply Signals	01-Nov-2004	0.1.0

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20-Dec-2004	0.0.1	Coen Janssen	Initial Draft		
12-Jan-2005	0.0.2	Coen Janssen	Review		
20-Jan-2005	0.0.3	Coen Janssen	Review		
14-Feb-2005	0.0.4	Coen Janssen	Motion to public review	Changed name of message from material requirements into goods requirements. Several corrections.	
07-Apr-2005	0.1.0	Coen Janssen	Public review comments	Typos in chapter 6.2.2	
24-May-2005	0.1.1	Coen Janssen	Peer review comments		

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
14-Jun-2005	0.1.2	Coen Janssen	XML development	Moved GoodsRequirementsLineItem to Common Library.	
13-Jul-2005	0.1.3	Coen Janssen	Technical Development Public Review	Several cosmetic changes. Functional change, see paragraph 1.10.	
12-Oct-2005	0.1.4	John Ryu	Build Master QA	Cosmetic Change to Document, no change to model. See section 1.10	BSD P4CL: 7563 MDL P4CL: 7559
25-Apr-2007	0.1.5	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A
29-Aug-2008	0.2.0	John Ryu	BMS Release 2.5.0	Noted in summary of changes	BSD P4CL: 10469
01-Dec -2008	0.2.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	BSD P4CL 10471
06-Feb-2009	Issue 0.2.1	Lisa Herrick	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	

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# 1. Business Domain View

## 1.1. Problem Statement / Business Need

In several business scenarios the buyer needs to communicate his Goods Requirements to the seller. This can be needed in traditional order driven scenarios and is definitely needed in supplier managed scenarios. The Goods Requirements communicated by the buyer can be gross or net (=gross requirements +/- inventory).

## 1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the re-quirements of the referenced BRAD(s).

## 1.3. Audience

- Manufacturers
- Suppliers
- Logistic Service Providers

## 1.4. References

Reference Name	Description
[Ref1] BMS Common Library for Release 2.5.0 Publication Release	The documented design of components that are used in multiple messages.
Ref2] BRAD Upstream Standards - Demand & Supply Signals 0.1.0	

## 1.5. Acknowledgements

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Function	Name	Organisation
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XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Eric Kauz	GS1

## 2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	Global
Product	All
Process	Plan
Official Constraints	None
Roles	Buyer, Seller
System Capabilities	EANCOM, XML

### 3. Additional Technical Requirements Analysis

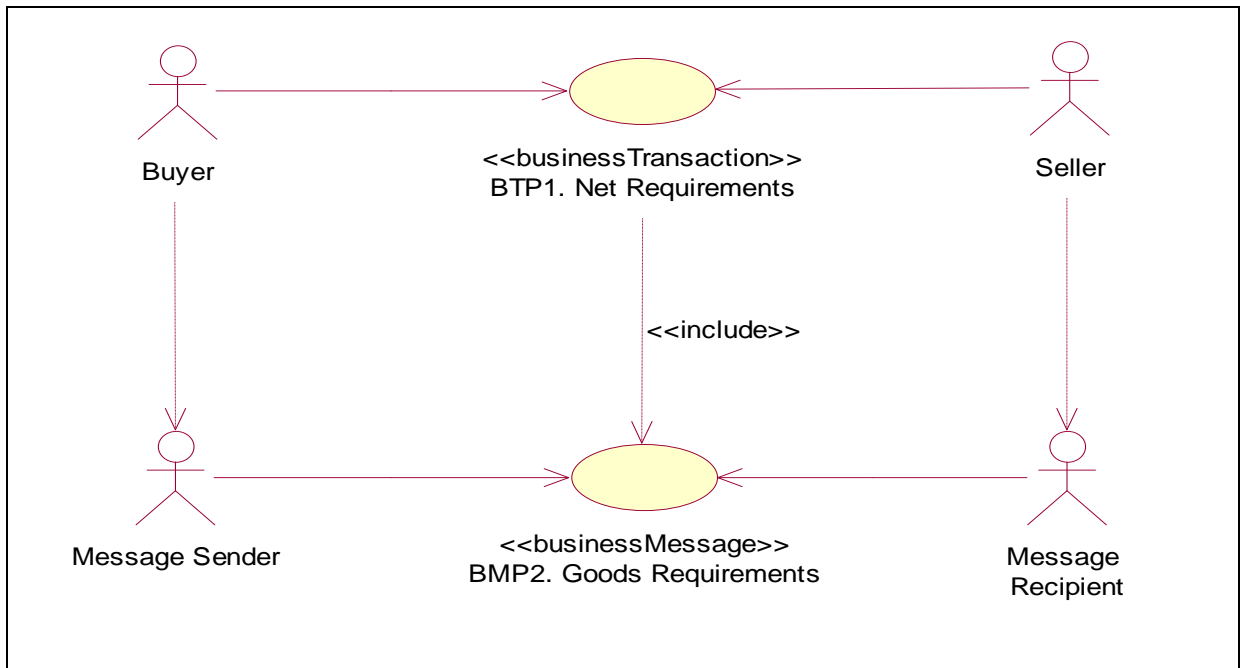
#### 3.1. Technical Requirements (optional)

Not Applicable

Number	Statement	Rationale

### 4. Business Transaction View

#### 4.1. Business Transaction NET REQUIREMENTS - Use Case Diagram

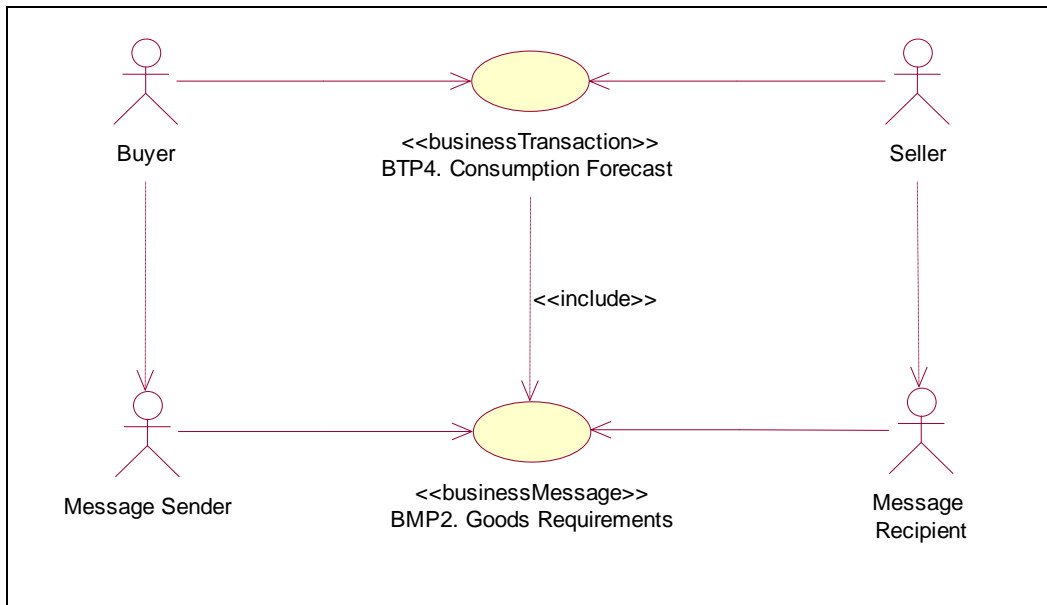


#### 4.2. Business Transaction NET REQUIREMENTS - Use Case Description

<b>Use Case ID</b>	BTP1
<b>Use Case Name</b>	Net Requirements
<b>Use Case Description</b>	The buyer communicates his net requirements to the seller.
<b>Actors (Goal)</b>	Buyer: To send the net requirements. Seller: To receive the net requirements.
<b>Performance Goals</b>	Not Applicable
<b>Preconditions</b>	Net Requirements: CALCULATED
<b>Post conditions</b>	Net Requirements: COMMUNICATED

<b>Scenario</b>	<b>Begins when:</b> Buyer has calculated his net requirements.		
	<b>Continues with:</b>		
	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
	1.	Buyer	Sends Goods Requirements message to the Seller.
	2.	Seller	Receives Goods Requirements Message
	<b>Ends when:</b>		
<b>Alternative Scenario</b>	<i>(any alternatives to the above scenario)</i>		
	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
			Not Applicable
<b>Business Transaction Rules</b>			
	1.	For communicating the consumption forecast use the goodsRequirementsType with value NET_REQUIREMENTS	

### 4.3. Business Transaction CONSUMPTION FORECAST - Use Case Diagram



## 4.4. Business Transaction CONSUMPTION FORECAST - Use Case Description

<b>Use Case ID</b>	BTP4										
<b>Use Case Name</b>	Consumption Forecast										
<b>Use Case Description</b>	The buyer communicates his forecasted consumption to the seller.										
<b>Actors (Goal)</b>	Buyer: To send the consumption forecast. Seller: To receive the consumption forecast.										
<b>Performance Goals</b>	Not Applicable										
<b>Preconditions</b>	Consumption Forecast: CALCULATED										
<b>Post conditions</b>	Consumption Forecast: COMMUNICATED										
<b>Scenario</b>	<p><b>Begins when:</b> Buyer has calculated his forecasted consumption.</p> <p><b>Continues with:</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Buyer</td> <td>Sends Goods Requirements message to the Seller.</td> </tr> <tr> <td>2.</td> <td>Seller</td> <td>Receives Goods Requirements Message</td> </tr> </tbody> </table> <p><b>Ends when:</b></p>		Step #	Actor	Activity Step	1.	Buyer	Sends Goods Requirements message to the Seller.	2.	Seller	Receives Goods Requirements Message
Step #	Actor	Activity Step									
1.	Buyer	Sends Goods Requirements message to the Seller.									
2.	Seller	Receives Goods Requirements Message									
<b>Alternative Scenario</b>	<p><i>(any alternatives to the above scenario)</i></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>Not Applicable</td> </tr> </tbody> </table>		Step #	Actor	Activity Step			Not Applicable			
Step #	Actor	Activity Step									
		Not Applicable									
<b>Business Transaction Rules</b>	<table border="1"> <tbody> <tr> <td>1</td> <td>For communicating the consumption forecast use the goodsRequirementsType with value GROSS_REQUIREMENTS</td> </tr> </tbody> </table>		1	For communicating the consumption forecast use the goodsRequirementsType with value GROSS_REQUIREMENTS							
1	For communicating the consumption forecast use the goodsRequirementsType with value GROSS_REQUIREMENTS										

## 5. Information Model (Including GDD Report)

### 5.1. GDD Report Goods Requirements

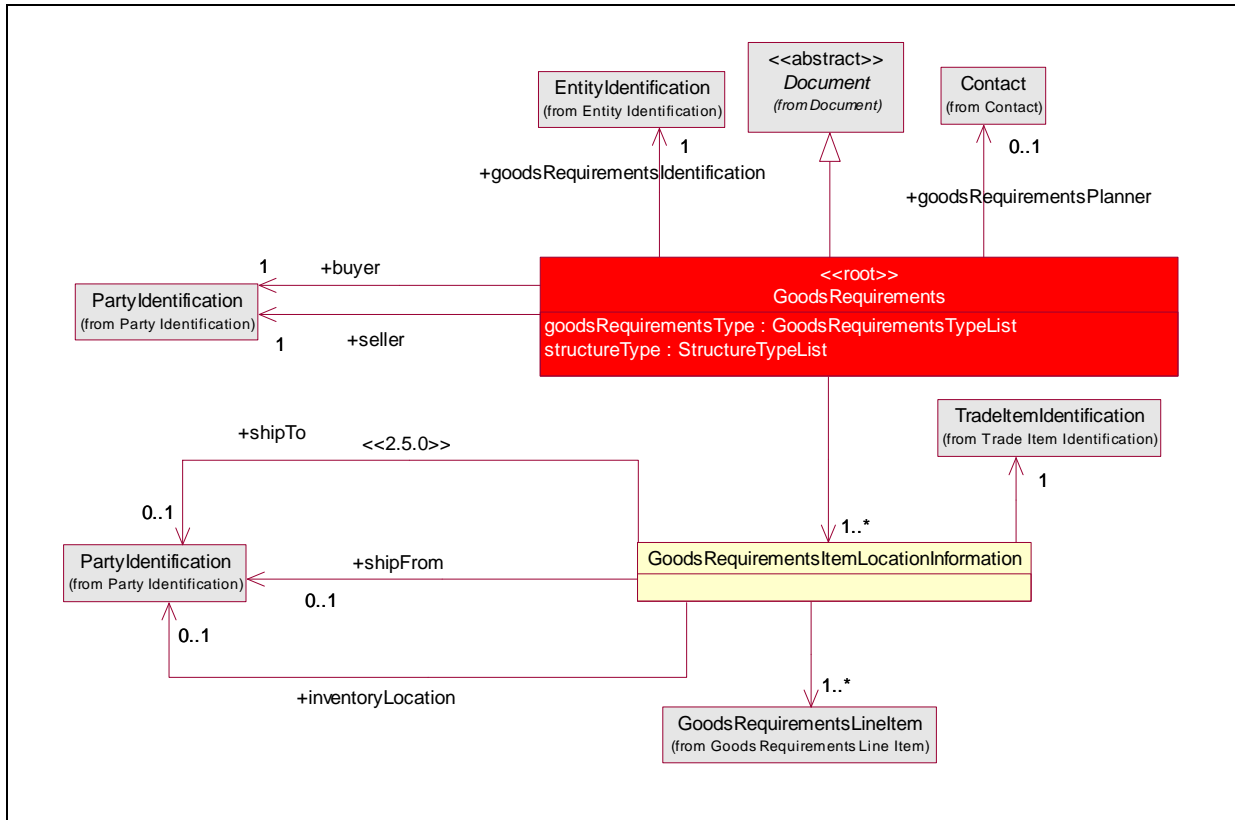
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
GoodsRequirements				Goods Requirements. Details	Contains the Goods Requirements from the buyer to the seller for given trade items and locations for specific time periods.				
	goodsRequirementsType			Goods Requirements. Goods Requirements Type. Goods Requirement Type_ Code	Contains the type of Goods Requirements, gross or net.	1..1	Code. Content		Facets constrained by code list values
	structureType			Goods Requirements. Structure Type. Structure Type_ Code	Contains the type of group-ing and sequence of the business document.	1..1	Code. Content		Facets constrained by code list values
		goodsRequirementsPlanner	Contact	Goods Requirements. Goods Requirements Planner. Contact	Contains the name or ID of the person or department responsible for the planning at the buyer side.	0..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-10} {7.6.1-1 0}	
			Document	Goods Requirements. Association. Electronic_ Document	This information on Document for GoodsRequirements.	1..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-2 +3} {7.6.1-2 +3}	
		goodsRequirementsIdentification	EntityIdentification	Goods Requirements. Goods Requirements Identification. Entity Identification	Contains the unique identifier of the business document.	1..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-1} {7.6.1-1 }	
			GoodsRequirementsItemLocationInformation	Goods Requirements. Association. Goods Requirements_ Item Location Information	This information on GoodsRequirementsItemLocationInformation for GoodsRequirements.	1..*			



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
		buyer	PartyIdentification	Goods Requirements. Buyer. Party Identification	The buyer associated with the goods requirements for given trade items and locations for specific time periods.	1..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-5} {7.6.1-5}	
		seller	PartyIdentification	Goods Requirements. Seller. Party Identification	The seller associated with the goods requirements for given trade items and locations for specific time periods.	1..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-6} {7.6.1-6}	
GoodsRequirementsItemLocationInformation				Goods Requirements_ Item Location Information. Details	Contains the Goods Requirements for given trade items and locations for specific time periods.				
			GoodsRequirementsLineItem	Goods Requirements_ Item Location Information. Association. Goods Requirements Line Item	This information on GoodsRequirementsLineItem for GoodsRequirementsItemLocationInformation.	1..*		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1- 4, 11, 13, 14, 15, 16, 17, 18, 19, 20} {7.6.1- 4, 11, 13, 14, 15, 16, 17, 18, 19}	
		inventoryLocation	PartyIdentification	Goods Requirements_ Item Location Information. Inventory Location. Party Identification	The location of inventory associated with a goods requirement.	0..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-9} {7.6.1-9}	
		shipFrom	PartyIdentification	Goods Requirements_ Item Location Information. Ship From. Party Identification	The ship from location associated with a goods requirement.	0..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-8} {7.6.1- 8}	
		shipTo	PartyIdentification	Goods Requirements_ Item Location Information. Ship To. Party Identification	The ship to location associated with a goods requirement.	0..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-7} {7.6.1-7}  BR Queue CR 7-320	
			TradeItemIdentification	Goods Requirements_ Item Location Information. Association. Trade Item Identification	This information on TradeItemIdentification for GoodsRequirementsItemLocationInformation.	1..1		[BRAD Upstream Standards - Demand & Supply Signals 0.1.0] {7.2.1-12} {7.6.1-12}	

## 5.2. Class Diagrams

Figure 5-1 Class Diagram: Goods Requirements



- ✔ **Note:** Reference Common Library Business Message (BMS) Release 2.5.0 for all common information.

## 5.3. Code Lists

- ✔ **Note:** Reference Common Library Business Message Release 2.5.0 for all Code Lists

## 6. Business Document Example

The following is an example of a gross requirements 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 gross requirements are 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. Kramer).

The gross requirements are for two delivery sites, X (Ship To 8712345670009) and Y (Ship To 8712345678951).

The gross requirements are for one item, A (GTIN 08712345678906).

For item A and delivery site X the gross requirements are:

- Week February 11-17: 1000 units, of which 500 units have already been received.
- Week February 18-25: 200 units.

The contract to be used for the requirements in week February 11-17 (2004000012) was issued by the business unit of the material supplier (content owner 8712345678999). Within the contract line 23 refers to this item.

For the requirements in week February 18-25 no contract has been specified.

For item A and delivery site Y the gross requirements are:

- Week February 11-17: 300 units.
- Week February 18-25: 1200 units.

The contract used for the requirements in week February 11-17 (2004000012) is the same as for delivery site X.

For the requirements in week February 18-25 no contract has been specified.

GoodsRequirements	
- creationDateTime	2005-02-09T11.00.00
- documentStatus	ORIGINAL
- goodsRequirementsType	GROSS_REQUIREMENTS
- structureType	ITEM_BY_LOCATION
EntityIdentification (+goodsRequirementsIdentification)	
- uniqueCreatorIdentification	2005001
PartyIdentification (+contentOwner)	
- gLN	8712345678913
PartyIdentification (+seller)	
- gLN	8812345678903
PartyIdentification (+buyer)	
- gLN	8712345678913
Contact (+goodsRequirementsPlanner)	



<b>GoodsRequirements</b>	
MultiDescription (+personOrDepartmentName)	
- description (language, text)	EN, Kramer
<b>GoodsRequirementsItemLocationInformation *1</b>	
PartyIdentification (+shipTo)	
- gLN	8712345670009
TradeItemIdentification	
- gTIN	08712345678906
<b>GoodsRequirementsLineItem *1.1</b>	
- lineItemNumber	1
- timeBucketSize	WEEK
- requiredQuantity (value, unitOfMeasure)	1000
TimeOrDateTimePeriod (+requirementsPeriod)	
TimePeriod	
- startDate	2005-02-11
- endDate	2005-02-17
DocumentOrDocumentLineReference (+purchaseConditions)	
DocumentLineReference	
- lineItemNumber	23
DocumentReference	
TypedEntityIdentification	
- entityType	PURCHASE_CONDITIONS
EntityIdentification	
- uniqueCreatorIdentification	2004000012
PartyIdentification (+contentOwner)	
- gLN	8712345678999
RequiredQuantitySpecification	
- quantitySpecificationType	CUMULATIVE_QUANTITY_RECEIVED
- specificQuantity (value, unitOfMeasure)	500
<b>GoodsRequirementsLineItem *1.2</b>	
- lineItemNumber	2
- timeBucketSize	WEEK
- requiredQuantity (value, unitOfMeasure)	1200
TimeOrDateTimePeriod (+requirementsPeriod)	
TimePeriod	
- startDate	2005-02-18
- endDate	2005-02-25

GoodsRequirements	
GoodsRequirementsItemLocationInformation *2	
PartyIdentification (+shipTo)	
- gLN	8712345678951
TradeItemIdentification	
- gTIN	08712345678906
GoodsRequirementsLineItem *2.1	
- lineItemNumber	1
- timeBucketSize	WEEK
- requiredQuantity (value, unitOfMeasure)	300
TimeOrDateTimePeriod (+requirementsPeriod)	
TimePeriod	
- startDate	2005-02-11
- endDate	2005-02-17
DocumentOrDocumentLineReference (+purchaseConditions)	
DocumentLineReference	
- lineItemNumber	23
DocumentReference	
TypedEntityIdentification	
- entityType	PURCHASE_CONDITIONS
EntityIdentification	
- uniqueCreatorIdentification	2004000012
PartyIdentification (+contentOwner)	
- gLN	8712345678999
GoodsRequirementsLineItem *2.2	
- lineItemNumber	2
- timeBucketSize	WEEK
- requiredQuantity (value, unitOfMeasure)	1200
TimeOrDateTimePeriod (+requirementsPeriod)	
TimePeriod	
- startDate	2005-02-18
- endDate	2005-02-25

## 7. Implementation Considerations

Not Applicable

## 8. Testing

This section describes the testing criteria for business solutions.

### 8.1. Pass / Fail Criteria

Not Applicable

### 8.2. Test Data

Not Applicable

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
GoodsRequirementsLineItem (Common Library): <ul style="list-style-type: none"> <li>Association to DocumentReference (+purchaseConditions) was changed into DocumentOrDocumentLineReference (+purchaseConditions).</li> </ul>	0.1.3	Not Applicable
<ul style="list-style-type: none"> <li>Section 1.5.4 Code List was inserted in correct alphabetical order.</li> <li>Acknowledgement section removed EAN and replaced with GS1.</li> <li>Assigned P4CL Unique ID: 7563</li> </ul>	BSD Document Version 0.1.4	Not Applicable
For BMS Release 2.5.0 <p>The cardinality for shipTo has been changed from mandatory (1..1) to Optional (0..1)</p>	0.2.0	07-000320 08-000209
For BMS Release 2.5.0 <ul style="list-style-type: none"> <li>Prep document for public review on 01-Dec-2008</li> <li>Remove Code Lists &amp; Add notes to reference Common Library BMS for Code Lists and Common Information.</li> </ul>	0.2.1	Not Applicable
For BMS Release 2.5.0 <ul style="list-style-type: none"> <li>eBallot Approved, Updated BMS to 'Approved' Status</li> <li>Update version to 'Issue'</li> </ul>	Issue 0.2.1	Not Applicable