Business Message Standard (BMS) Replenishment Proposal

BMS Release: 2.5.0, BRG Name: eCom

Issue 2.0.2, 06-Feb-2009

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Replenishment Proposal
BMS Release	2.5.0
BRG Name	eCom
Document Number	Issue 2.0.2
Date Last Modified	06-Feb-2009
Status	Approved
Owner	BRG: eCom
BMS Template Version	1.9

Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
20 –Aug-2008	John Ryu, GS1	08-000209
8- Aug – 2007	Eric Maree, Accenture	07-000309
05-Nov-2004	GS1	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
Replenishment – Business Requirement Document	30-Mar-2004	1.0.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31-Dec-2004	1.0.0	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	NOT APPLICABLE
12-Jan-2005	1.1.0	Coen Janssen	UIM project	Draft version	NOT APPLICABLE
20.-Jan-2005	1.1.1	Coen Janssen	Review		NOT APPLICABLE
14-Feb-2005	1.1.2	Coen Janssen	Motion to public review	Some corrections	
07-Apr-2005	1.2.0	Coen Janssen	Public Review Plan BRG February 21 – March 1 2005	Changes to functionality: See chapter 11.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
21-Apr-2005	1.2.1	Coen Janssen	Vienna meeting	Added some further clarifications to chapter 11.	
30-May-2005	1.2.2	Coen Janssen	Peer review comments	Functional changes see chapter 11. Corrected the GDD report. Corrected the Use Case description. Changed the footer text.	
09-Jun-2005	1.2.3	Coen Janssen	Updated GDD official names.		
21-Jul-2005	1.2.4	Coen Janssen	Technical Design Public Review	Several cosmetic changes Functional change, see paragraph 1.10	
25-Apr-2007	1.2.5	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	NOT APPLICABLE
29-Aug-2008	2.0.0	John Ryu	BMS Release 2.5.0	Description provided in Summary of Changes	NOT APPLICABLE
01-Dec -2008	2.0.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	NOT APPLICABLE
01-Dec-2008	2.0.2	John Ryu	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	NOT APPLICABLE
06-Feb-2009	Issue 2.0.2	Lisa Herrick	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	Not Applicable

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1. Business Domain View

1.1. Problem Statement / Business Need

The replenishment process in broad sense addresses the business practice to exchange data between a buying party (e.g. buyer) and a supplying party (e.g. seller/supplier) related to the future demand of finished or semi-finished products, ingredients, packaging and raw materials.

Between retailer and manufacturer (the downstream supply chain) the data is basically based on future demand based on finished products and time series but it can also be restricted to actual sales date for a certain period of time. Feed-back from the manufacturer on his availability to deliver is required, where available inventories (of both sides) are taken in account.

Between manufacturer and material supplier (the upstream supply chain) the data is basically based on material requirements for production and the timing for it, and also the feedback from the material supplier on his availability to deliver and the schedule for delivery. Inventories (on both sides) are taken into account for the actual delivery schedule.

Based on the delivery schedule (replenishment proposal), a transport and shipping planning can be derived.

1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced BRAD(s) and change requests.

1.3. Audience

Anyone involved in the replenishment process with another party in the (extended) supply chain process. These parties basically are retailers, manufactures and suppliers of ingredients, packaging and raw materials. But can also be parties in between like wholesalers or logistic service providers managing warehouses.

1.4. References

	Reference Name	Description
[Ref1]	BMS Common Library Release 2.5.0	The documented design of components that are used in multiple messages.
[Ref2]	BRAD Upstream Standards - Demand & Supply Signals 0.1.0	
[Ref3]	Replenishment – Business Requirement Document 1.0.0	

1.5. Acknowledgements

1.5.1. BRG Work Group

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Steven	Rosenberg	GS1 US
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1.5.2. Design Team Members

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	All
Product	All
Process	Plan
Official Constraints	None
Roles	Buyer, Seller
System Capabilities	EANCOM, XML

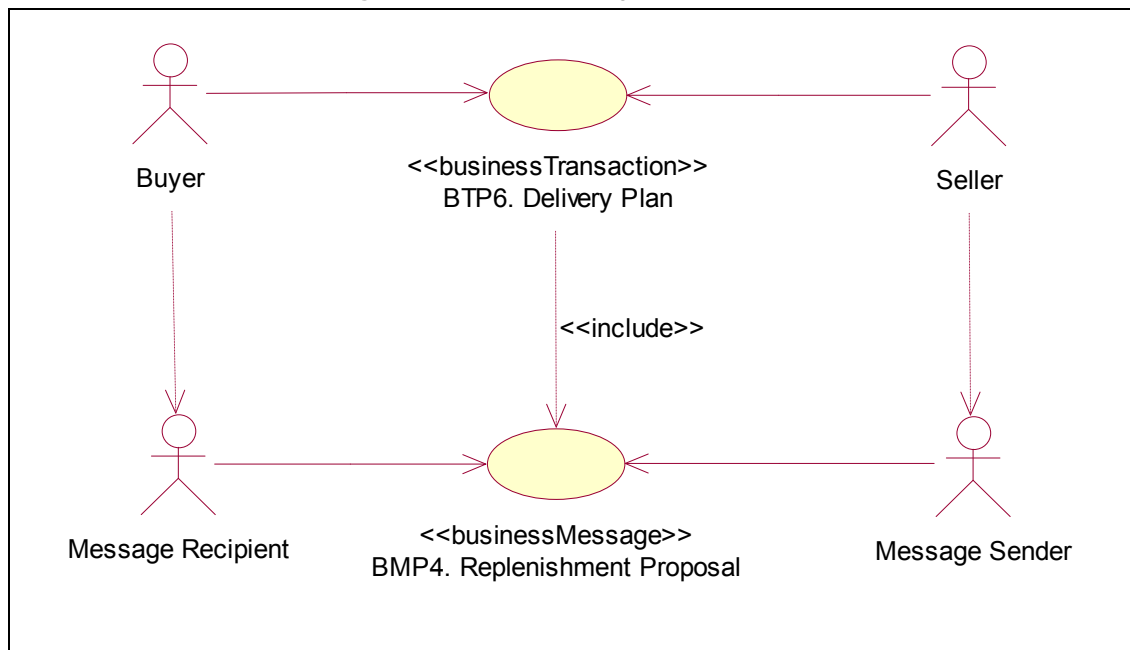# 3. Additional Technical Requirements Analysis

3.1. Technical Requirements (optional)

Not Applicable

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Figure 4-1 Use Case Diagram: Business Transaction

4.2. Use Case Description

Use Case ID	BTP6
Use Case Name	Delivery Plan
Use Case Description	The Delivery Plan is sent by the supplier and communicates to the buyer the quantities of which items will be delivered when & where by the supplier.
Actors (Goal)	Seller: To send the Delivery Plan. Buyer: To receive the Delivery Plan.
Performance Goals	
Preconditions	Delivery Plan: CALCULATED
Post conditions	Delivery Plan: COMMUNICATED
Scenario	**Begins when:** Seller has calculated the delivery plan. **Continues with**:

Step #	Actor	Activity Step
1.	Seller	Sends Replenishment Proposal message to the Buyer.
2.	Buyer	Receives Replenishment Proposal message

Ends when: Buyer receives Replenishment Proposal message

Alternative Scenario	Not Applicable
Guidelines	Not Applicable

4.3. Business Transaction Activity Diagram(s)

NOT APPLICABLE

4.4. Business Transaction Sequence Diagram(s)

NOT APPLICABLE

5. Information Model (Including GDD Report)

5.1. GDD Report

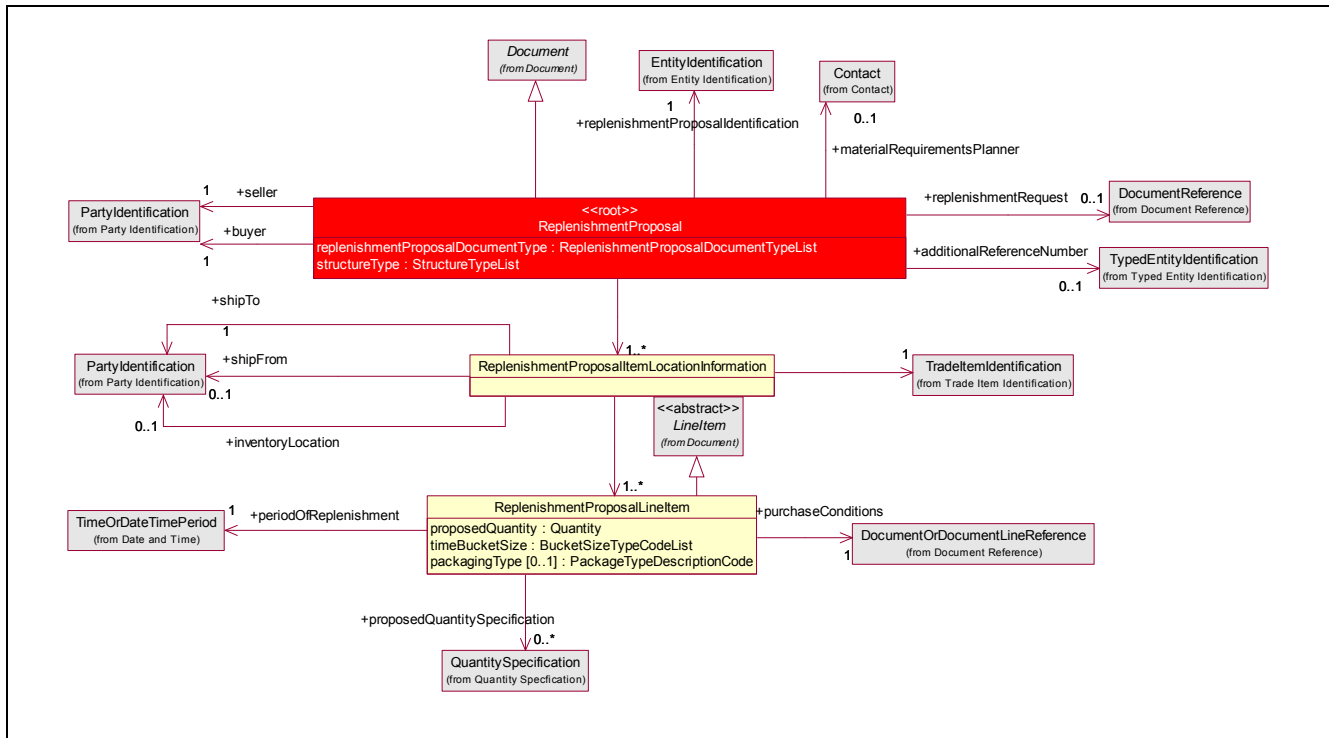| Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
ReplenishmentProposal				Replenishment Proposal. Details	Contains the seller delivery or production plan for the buyer for given trade items and locations for specific time periods.				
	replenishmentProposalIDocumentType			Replenishment Proposal. Replenishment Proposal Document Type. Replenishment Proposal Document Type_ Code	Contains the type of replenishment plan; production or delivery.	1..1	Code. Content	Replenishment – Business Requirement Document 1.0.0	Facets constrained by code list values
	structureType			Replenishment Proposal. Structure Type. Structure Type List_ Code	Contains the type of grouping and sequence of the business document.	1..1	Code. Content		Facets constrained by code list values
		materialRequirementsPlanner	Contact	Replenishment Proposal. Material 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 {7.8.1-10}	
			Document	Replenishment Proposal. Inheritance. Document	This information on Document for ReplenishmentProposal.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-2+3}	
		replenishmentRequest	DocumentReference	Replenishment Proposal. Replenishment Request. Document Reference	Contains reference to the replenishment request on which the proposal has been based.	0..1		Replenishment – Business Requirement Document 1.0.0	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
		replenishmentProposalIdentification	EntityIdentification	Replenishment Proposal. Replenishment Proposal_ Indentification. Entity Identification	Unique replenishment proposal number assigned by supplying party	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-1}	
		buyer	PartyIdentification	Replenishment Proposal. Buyer. Party Identification	Contains the identification of the party that is buying the goods.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-5}	
		seller	PartyIdentification	Replenishment Proposal. Seller. Party Identification	Contains the identification of the party that is selling the goods.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-6}	
		additionalReferenceNumber	TypedEntityIdentification	Replenishment Proposal. Additional Reference. Typed_ Entity Reference. Details	Assigned by buying party. Includes date and reference number.	0..1		Replenishment – Business Requirement Document 1.0.0	
			ReplenishmentProposalItemLocationInformation	Replenishment Proposal. Association. Replenishment Proposal Item Location Information	This information on Replenishment Proposal Item Location Information for ReplenishmentProposal.	1..*		Replenishment – Business Requirement Document 1.0.0	
ReplenishmentProposalItemLocationInformation				Replenishment Proposal Item Location Information. Details	Contains the replenishment plan for given trade items and locations for specific time periods.				
		inventoryLocation	PartyIdentification	Replenishment Proposal Item Location Information. Inventory Location. Party Identification	Identification of the physical place at the receiving side where the items are to be stored.	0..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-9}	
		shipFrom	PartyIdentification	Replenishment Proposal Item Location Information. Ship From. Party Identification	Contains the identification of the location wherefrom the required goods will be delivered.	0..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-8}	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
		shipTo	PartyIdentific ation	Replenishment Proposal Item Location Information. Ship To. Party Identification	Contains the identification of the location whereto the required goods will be delivered.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-7}	
			ReplenishmentProposalLineItem	Replenishment Proposal Item Location Information. Association. Replenishment Proposal Line Item	This information on ReplenishmentPropo salLineItem for ReplenishmentPropo salItemLocationInfor mation.	1..*			
			TradeItemId entification	Replenishment Proposal Item Location Information. Association. Trade Item Identification	This information on TradeItemIdentificatio n for ReplenishmentPropo salItemLocationInfor mation.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-12}	
ReplenishmentProposalLineItem				Replenishment Proposal Line Item. Details	Contains the planned quantities per time bucket.				
	packagingType			Replenishment Proposal Line Item. Packaging Type. Code	Contains the kind of logistic unit in which the goods will be delivered.	0..1	Code. Content Code List. Agency. Identifier Code List. Agency Name. Text	Replenishment – Business Requirement Document 1.0.0	Facets constrained by code list values
	proposedQu antity			Replenishment Proposal Line Item. Proposed Quantity. Quantity	The number of units planned to be replenished.	1..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-13 + 14}	No Restrictions
	timeBucketSi ze			Replenishment Proposal Line Item. Time Bucket Size. Bucket Size_ Code	Contains a code describing the size of the planning period.	1..1	Code. Content	BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1 Missing requirement}	Facets constrained by code list values
		purchaseConditions	DocumentOr DocumentLin eReference	Replenishment Proposal Line Item. Purchase Conditions. Document Or Document Line Reference	Contains a reference to the commercial agreement under which the goods are supplied.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0{7.8.1-4}	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
			LineItem	Replenishment Proposal Line Item. Inheritance. Line Item	This information on LineItem for ReplenishmentProposalLineItem.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0 {7.8.1-11}	
		proposedQuantitySpecification	QuantitySpecification	Replenishment Proposal Line Item. Proposed Quantity Specification. Quantity Specification	Contains additional quantity information for the time bucket. Example: In Transit, Produced.	0..*		Replenishment – Business Requirement Document 1.0.0	
		periodOfReplenishment	TimeOrDateTimePeriod	Replenishment Proposal Line Item. Period Of Replenishment. Time Or Date Time Period	Contains the start and end dates and optionally start and end times of the time bucket.	1..1		BRAD Upstream Standards - Demand & Supply Signals 0.1.0{7.8.1-15+16+17+18}	

5.2. Class Diagrams

Figure 5-1 Class Diagram: Replenishment Proposal

> ✓ **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 delivery plan message. The message is send out on January 11th at 11 AM. The message is identified with the unique identifier 20050014. The content owner is the sending party, in this case the material supplier (Seller 8812345678901).

The delivery plan is sent by the material supplier (Seller 8812345678901) to the manufacturer (Buyer 8712345678911).

For informational purposes the material supplier includes the name of the material requirements planner of the manufacturer (Mr. Kramer).

The delivery plan is for one delivery site (Ship to 8712345670001), one supplier site (Ship from 8712345678960). For one of the products there is a specific storage location specified (Inventory location 8712345670077). It has an additional seller assigned id (ROTTERDAM-01).

The delivery plan contains two items: Item A (GTIN 08712345678901) and item B (GTIN 08712345678920 and buyer item number AB77770004). Item A has two planned deliveries:

- on February 11th of 1000 units of which 500 units are in transit.
- on February 12th of 200 units.

The contract used for this product (2004000012) issued by the material supplier. Within the contract line 23 refers to this item.

Item B has one planned delivery on February 9th of 500 units. This needs to be delivered between 8 AM and 9 AM.

The contract used for this product (2004000012) issued by the material supplier. Within the contract line 25 refers to this item.

ReplenishmentProposal	
- creationDateTime	2005-01-11T11:00:00
- documentStatus	ORIGINAL
- replenishmentProposalType	DELIVERY_PLAN
- structureType	LOCATION_BY_ITEM
EntityIdentification (+ReplenishmentProposalIdentification)	
- uniqueCreatorIdentification	20050014
PartyIdentification (+contentOwner)	
- gLN	8812345678901
PartyIdentification (+seller)	
- gLN	8812345678901
PartyIdentification (+buyer)	
- gLN	8712345678911
Contact (+materialRequirementsPlanner)	
MultiDescription (+personOrDepartmentName)	
- description (language, text)	EN, KRAMER
ReplenishmentProposalItemLocationInformation *1	
PartyIdentification (+shipTo)	
- gLN	8712345670001
PartyIdentification (+shipFrom)	
- gLN	8712345678960
TradeItemIdentification	
- gTIN	08712345678901
ReplenishmentProposalLineItem *1.1	
- lineItemNumber	1
- timeBucketSize	DAY
- proposedQuantity (value, unitOfMeasure)	1000
TimeOrDateTimePeriod (+requirementsPeriod)	

ReplenishmentProposal	
TimePeriod	
- startDate	2005-02-11
- endDate	2005-02-11
DocumentOrDocumentLineReference (+purchaseConditions)	
DocumentLineReference	
- lineItemNumber	23
DocumentReference	
- entityType	PURCHASE_CONDITIONS
EntityIdentification	
- uniqueCreatorIdentification	2004000012
PartyIdentification (+contentOwner)	
- gLN	8812345678901
QuantitySpecification (+proposedQuantitySpecification)	
- quantitySpecificationType	IN_TRANSIT
- specificQuantity (value, unitOfMeasure)	500
ReplenishmentProposalLineItem *1.2	
- lineItemNumber	2
- timeBucketSize	DAY
- proposedQuantity (value, unitOfMeasure)	200
TimeOrDateTimePeriod (+requirementsPeriod)	
TimePeriod	
- startDate	2005-02-12
- endDate	2005-02-12
DocumentReference (+purchaseConditions)	
- entityType	PURCHASE_CONDITIONS
EntityIdentification	
- uniqueCreatorIdentification	2004000012
PartyIdentification (+contentOwner)	
- gLN	8812345678901
DocumentLineReference	
- lineItemNumber	2
ReplenishmentProposalItemLocationInformation *2	
PartyIdentification (+shipTo)	
- gLN	8712345670001
PartyIdentification (+shipFrom)	
- gLN	8712345678960

ReplenishmentProposal	
PartyIdentification (+InventoryLocation)	
- gLN	8712345670077
AdditionalPartyIdentification	
AdditionalPartyIdentificationType	SELLER_ASSIGNED_IDENTIFIER_FOR_A_PARTY
AdditionalPartyIdentificationValue	ROTTERDAM-01
TradeItemIdentification	
- gTIN	08712345678920
AdditionalTradeItemIdentification	
AdditionalTradeItemIdentificationType	BUYER_ASSIGNED
AdditionalTradeItemIdentificationValue	AB77770004
ReplenishmentProposalLineItem *2.1	
- lineItemNumber	3
- timeBucketSize	DAY
- proposedQuantity (value, unitOfMeasure)	500
TimeOrDateTimePeriod (+requirementsPeriod)	
DateTimePeriod	
- startDate	2005-02-09T08:00:00
- endDate	2005-02-09T09:00:00
DocumentOrDocumentLineReference (+purchaseConditions)	
DocumentLineReference	
- lineItemNumber	25
DocumentReference (+purchaseConditions)	
- entityType	PURCHASE_CONDITIONS
EntityIdentification	
- uniqueCreatorIdentification	2004000012
PartyIdentification (+contentOwner)	
- gLN	8812345678901

7.   Implementation Considerations

NOT APPLICABLE

8.   Testing

8.1.   Pass / Fail Criteria

NOT APPLICABLE

8.2. Test Data

NOT APPLICABLE

9. Appendices

NOT APPLICABLE

10. Summary of Changes

Change	BMS Version	Associated CR
Section 7.3 Added ACTUAL_PRODUCTION as code value to ReplenishmentProposalDocumentTypeList	1.2.0	CR04-000211
Section 7 Modified QuantitySpecification class (part of Common Library) to include an optional association to the AdditionalItemData class.	1.2.1	CR04-000211
Replaced associations to TypedEntityIdentification with DocumentReference (+replenishmentRequest) and Reference (+additionalReference) Removed PackagingTypeList as a data type. Instead PackagingTypeDescriptionCodeList will be used.	1.2.2	CR04-000211
Paragraph 1.5: ReplenishmentProposalLineItem: Association to DocumentReference (+purchaseConditions) was changed into DocumentOrDocumentLineReference (+purchaseConditions).	1.2.4	CR04-000211
Upgrade for BMS release 2.5.0 Needed to upgrade as Replenishment Request was issued and Replenishment Proposal is needed for implementation.	2.0.0	CR 08-000209
For BMS Release 2.5.0 ■ Prep document for public review on 01-Dec-2008 ■ Remove Code Lists & Add notes to reference Common Library BMS for Code Lists and Common Information.	2.0.1	Not Applicable
Stop Gap Quality Control Based on December 3 2008 eCom BRG Teleconference. The decision was to change UML to match XML for backward compatibility. UML and GDD changed FROM: ReplenishmentProposal+additonalReferenceNumber(0..1)**Reference** TO: ReplenishmentProposal+additonalReferenceNumber(0..1) **TypedEntityIdentification**	2.0.2	Not Applicable
For BMS Release 2.5.0 • eBallot Approved, Updated BMS to 'Approved' Status • Update version to 'Issue'	Issue 2.0.2	Not Applicable