Business Message Standard (BMS)

for

Goods Requirements Response

BRG: Plan
IRT: Upstream Standards

BMS Release: 2.1

Document Version: 0.1.3

Date: 21.07.2005

Change Request Reference

Refer to Change Request (CR) Number(s):	CR04-000211
CR Submitter(s):	Regenald Kramer
Date of CR Submission to GSMP:	05.11.2004

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Upstream Standards - Demand & Supply Signals
BRAD Date:	01.11.2004
BRAD Version:	0.1.0

Document Summary

Document Number:	Unique identifier from initial check-in number
Document Title:	BMS for Goods Requirements Response
Owner:	BRG: Plan
	IRT: Upstream Standards
	Chairperson: Fred Kempkes
Status:	(check one box) ☐ DRAFT ☑ Approved
BMS Template Version:	1.2
Targeted BMS Publication Version	2.1

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20.12.2004	0.0.1	CJ	Initial Draft		
12.01.2005	0.0.2	CJ	Review		
20.01.2005	0.0.3	CJ	Review		
14.02.2005	0.0.4	CJ	Motion to public review	Changed name of message from Material Requirements Response into Goods Requirements Response.	
07.04.2005	0.1.0	CJ	Plan BRG February 21 - March 1 2005	Typo in chapter 1.1.	
30.05.2005	0.1.1	CJ	Peer review comments	Changed footer text. Corrected GDD report. Corrected class diagram (see chapter 12).	
21.07.2005	0.1.2	CJ	Technical Design Public Review	Several cosmetic changes.	
25.04.2007	0.1.3	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

(States the business need, establishing the context for the business transactions and information requirements.)
For some commercial transactions the requesting party requires a formal acknowledgement by the responding party in order to ensure proper and timely processing. The Goods Requirements Response message enables the responding party to communicate his acceptance of the Goods Requirements transaction.

1.1.2 Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced BRAD(s).
(Above is standards text for the objective.)

1.1.3 Audience

(List of expected internal and external users of the BMS expressed as stakeholder.)
- Manufacturers
- Suppliers
- Logistic Service Providers

1.1.4 Artefacts

(List of the artefacts that are used as either an input to the process or an output from the process, also indicating the different states that the artefact takes during the process.)

Artefact name	State	Artefact / State description

1.1.5 References

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

1.1.6 Acknowledgements

1.1.6.1 IRT Members

Function	Name	Company / organisation
IRT Chair	Fred Kempkes	Unilever
IRT Participant	Kevin Zeng	Procter & Gamble
IRT Participant	Stephen Bell	CPG Market
IRT Participant	Roland Dachs, Olivier Grienenberger, Don Reed	Crown Cork
IRT Participant	Arthur Doldersum	SCA
IRT Participant	James Kimber	General Mills, Inc.
IRT Participant	Kristen Halwachs	UCCnet
IRT Participant	Nicola Comiotto, Menno Smit	Nestlé
IRT Participant	Pawel Solowinski	Kappa Packaging
IRT Participant	Peter Broend, Johannes Lundgren	Novozymes
IRT Participant	Paul Moodey	Johnson & Johnson
IRT Participant	Wouter Crul	Nspyre
IRT Participant	Thierry Baillif, Gabriel Galeazzi	Firmenich
IRT Participant	Jan Peter Klijn	Royal Sens
IRT Participant	Yasushi Kiyama	Ajinomoto Co.
IRT Participant	Georges Socquet	Givaudan

1.1.6.2 BRG Members

Function	Name	Company / organisation
BRG Manager	Tom Heist	GS1 Head Office
BRG Chair	Fred Kempkes	Unilever Bestfoods Europe
BRG Member	Mutsuo Fukada	The Distribution Code Centre - DCC
BRG Member	Roman Strand	Centrale Fur Coorganisation - CCG
BRG Member	Ricardo Toshio Yugue	EAN Brazil
BRG Member	David Ferrell	Wal-Mart Stores
BRG Member	Victoria M. Kendzierski	Thomson
BRG Member	Murray Pratt	Kraft Foods
BRG Member	Larry Roth	Kimberly-Clark
BRG Member	Robert Rzepka	Worldwide Retail Exchange
BRG Member	Thomas Stenftenagel	Procter & Gamble

1.1.6.3 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member	Stef Spaan	GS1 Netherlands
ITRG Member		
ITRG Member		
ITRG Member		
...		

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Coen Janssen	GS1 Netherlands
XML Technical Designer	Dipan Anarkat	GS1 Head Office
EANCOM Technical Designer	Marco Schuyt	GS1 Netherlands
Peer Reviewer	Eric Kauz	GS1 Head Office

1.2 Business Context

(Note: The context of the business)

Context Category	Value(s)
Industry	*All, Consumer Packaged Goods* All
Geopolitical	*All, Europe, Unites States, Japan, UK* All
Product	*All, Direct Materials, Food, Non-Food, Hard lines, Apparel* All
Process	*All, Order (Direct To Consumer), Order (Direct Store Delivery), Order, Pay (Self Billing), Deliver (Direct Store Delivery) …..* Plan
Official Constraints	*None, Value Added Tax, Sales Tax* None
Roles	*Buyer, Seller, Ship From, Ship To, Payer Payee, Data Source, Data Recipient* Buyer, Seller
System Capabilities	*All, EANCOM, XML, AIDC, EPC-network* EANCOM, XML

If no value use, the default of "All" except for Official Constraints where default is "None".

(Process, Geopolitical, Industry, User Role (Retailer, Supplier, etc.))
If context cannot be specified, select from the context classification code list in the GDD.).

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

(User Interface, Security, Performance, Quality, etc.)

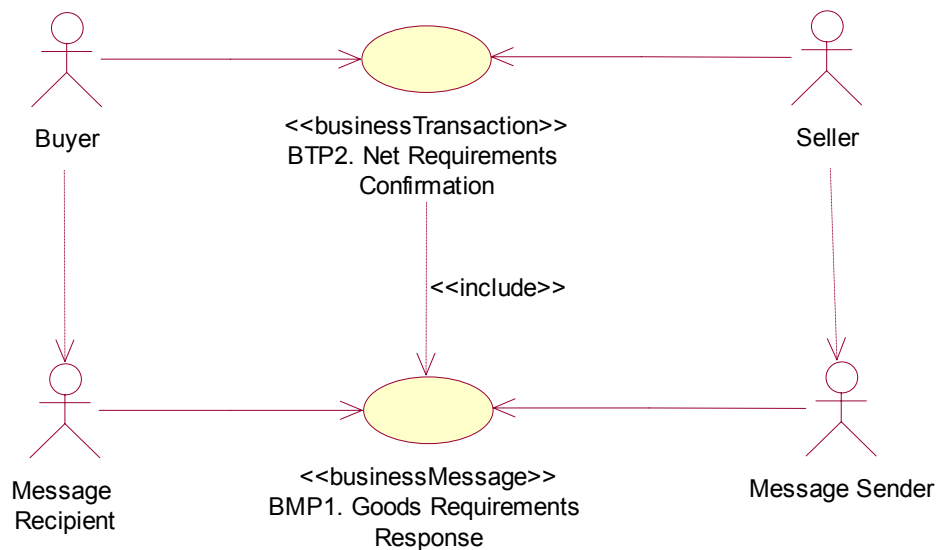| Number	Statement	Rationale
1.		

1.4 Business Transaction View

1.4.1 Business Transaction NET REQUIREMENTS CONFIRMATION

1.4.2 Business Transaction Use Case Diagram

Detailed Use Case for generic use of the message. Focuses on commands associated with business solution.
Note: Each Use Case shall be given a consecutive paragraph number (e.g., 2.4.1) and heading.)

Buyer

<<businessTransaction>>
BTP2. Net Requirements
Confirmation

Seller

<<include>>

Message
Recipient

<<businessMessage>>
BMP1. Goods Requirements
Response

Message Sender

Figure 1 – Use Case Diagram: Business Transaction

1.4.3 Use Case Description

Use Case ID	BTP2
Use Case Name	Net Requirements Confirmation
Use Case Description	The seller confirms that he accepts and will process the net requirements he received from the buyer.
Actors (Goal)	Buyer: To ensure that the net requirements are processed.

	Seller: To communicate that he will process the net requirements.
Performance Goals	
Preconditions	Net Requirements: COMMUNICATED
Post conditions	Net Requirements: ACCEPTED
Scenario	**Begins when:** Seller receives the Net Requirements from the Buyer. **Continues with**: *(table below)* **Ends when:** buyer receives the Goods Requirements Response
Alternative Scenario	*(any alternatives to the above scenario)* *(table below)*

Scenario "Continues with" table:

Step #	Actor	Activity Step
1.	Seller	Sends Goods Requirements Response message to the Buyer.
2.	Buyer	Receives Goods Requirements Response

Alternative Scenario table:

Step #	Actor	Activity Step
1.		
2.		

1.4.4 Business Transaction Activity Diagram(s)

(Note: Activity diagrams are optional. The business process modeller shall determine the use and number of activity diagrams included in the BMS. Each activity diagram shall be given a consecutive paragraph number (e.g., 2.4.1) and heading.)

1.4.5 Business Transaction Sequence Diagram(s) (optional)

(Note: Sequence diagrams are optional. The business process modeller shall determine the use and number of sequence diagrams included. Each sequence diagram shall be given a consecutive paragraph number (e.g., 2.5.1) and heading.)

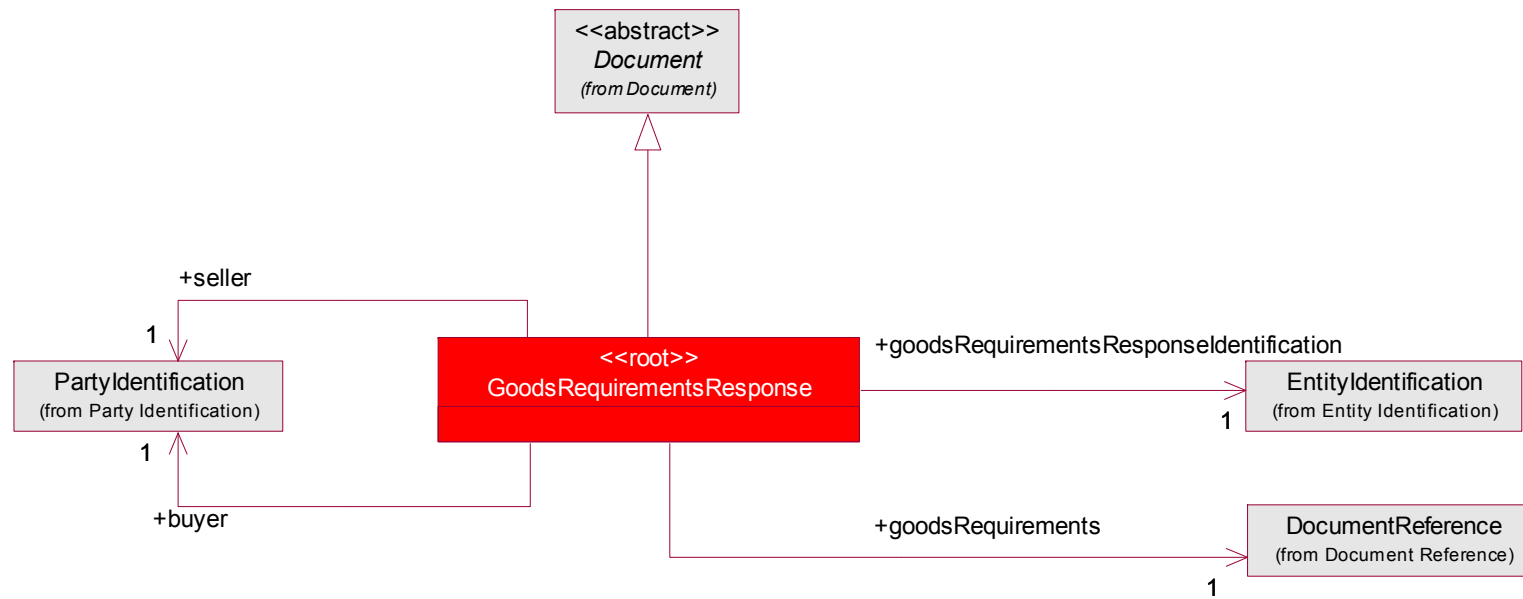## 1.5   Information Model (including GDD Report)

1.5.1   Data Description

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirement
GoodsRequire-mentsResponse				
		<<is a>>	Document	[ref2] {7.3.1-2}
		buyer	PartyIdentification	[ref2] {7.3.1-3}
		seller	PartyIdentification	[ref2] {7.3.1-4}
		goodsRequirementsResponseIden-tification	EntityIdentification	[ref2] {7.3.1-1}
		goodsRequirements	DocumentReference	[ref2] {7.3.1-5}

1.5.2   GDD Report

(Output from GDD should be pasted in this section.)

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi-plicity
GoodsRequire-mentsResponse					Contains the response to the material requirements message	
		<<is a>>	Document			
		buyer	PartyIdentifica-tion		Contains the identification of the party that is buying the goods.	1..1
		seller	PartyIdentifica-tion		Contains the identification of the party that is selling the goods.	1..1
		goodsRequire-mentsRespon-seIdentification	EntityIdentifica-tion		Contains the unique identifier of the business document.	1..1
		goodsRequire-ments	Documen-tReference		Contains the reference to the material requirements message.	1..1

1.5.3 Class Diagrams

Figure 2 – Class Diagram: Business Document

1.5.4 Code Lists

(Output from GDD should be pasted in this section.))

Code List Name	Code List Description
Code Name	**Code Description**

1.6 Business Document Example

The material supplier (seller 8812345678901) sends a response to the manufacturer (buyer 8712345678911) indicating that he has accepted the material requirements that he received from the manufacturer (Material_Requirements 205001).

GoodsRequirementsResponse	
- creationDateTime	`2005-01-11T11.01.00`
- documentStatus	`ORIGINAL`
EntityIdentification (+goodsRequirementsResponseIdentification)	
- uniqueCreatorIdentification	`0012`
PartyIdentification (+contentOwner)	
- gLN	`8812345678901`
PartyIdentification (+seller)	
- gLN	`8812345678901`
PartyIdentification (+buyer)	
- gLN	`8712345678911`
DocumentReference(+goodsRequirements)	
EntityIdentification	
- uniqueCreatorIdentification	`2005001`
PartyIdentification (+contentOwner)	
- gLN	`8712345678911`

1.7 Implementation Considerations

1.8 Testing

1.8.1 Pass / Fail Criteria

Unit testing criteria for business solution.

Number	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1	*Reflects a specific business requirement from a related BRAD. For example: When goods are ordered, the buyer requires an answer from the suppliers that the order has been received.*	*BRAD Name.Version. Req #*	*Message, role, attribute*	*Result which determines that requirement has been satisfied: For example:* *Seller is able to create and send an Order Receipt Acknowledgement.*	*Result which shows that requirement has not been satisfied: For example:* *Buyer does not receive the Order Receipt Acknowledgement.*
2					

Nu mb er	Test Criteria	Related Re- quirement	Design Element	Pass Criteria	Fail Criteria
3					

1.8.2 Test Data

Attribute	Value
Attribute Name. For example "orderQuantity"	*Valid value associated with the attribute. For example "5".*

1.9 Appendices

1.10 Summary of Changes

(Details changes to BMS for each version by BMS Section)

Change	BMS Ver- sion	Associated CR Number
• Replaced association to TypedEntity- Identification (+goodsRequirements) with DocumentReference (+goodsRequirements)	0.1.1	CR04-000211

2 Technical Solution Design

This section provides the specifications for the standards content ITRG approves. It is called the Technical Solution Design (TSD).

The Technical Solution Design contains:
- o TSD Zip file Table of Contents
- o Business Message Standard Section Technical Level GDD Report
- o XSD (XML Schema Documents)
- o XML Instance File and HTML Form View (XML and HTML files containing sample data specified in Section 1.6)

In the process of approving the Technical Solution Design, the ITRG will be provided the following artefacts:

- o Any relevant Business Requirements Analysis Document (BRAD)
- o Any relevant Business Requirements Document (BRD)
- o Section 1 of Business Message Standard (Business Solution Design)
- o Comment Resolution Template from Technical Public Review
- o XML Test Report
- o Change Request
- o Other informative or reference documents