



Business Message Standard (BMS) Invoice Response

BMS Release: 2.5.0, BRG Name: eCom

Issue 0.2.1, 06- Feb-2009



Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Invoice Response
BMS Release	2.5.0
BRG Name	eCom
Current Document Issue	Issue 0.2.1
Date Last Modified	06- Feb-2009
Status	Approved
Owner	eCom BRG
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
10- Aug – 2005	Tom Heist, GS1	05-000252

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
BRAD Upstream Standards – Financial Settlement	07 Dec 2004	Version 0.1.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20- Sep-2005	0.0.1	Coen Jansen	Initial Draft		
12-Oct-2005	0.1.0	Coen Jansen	Motion to public review	Some textual changes in 1.1.1 and 1.6.	
01-Dec-2005	0.1.1	Coen Jansen	Technical public review comments	Some minor changes in 1.5.1 and 1.5.2.	
25-Apr 2007	0.1.2	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A
23-Sep- 2008	0.2.0	John Ryu	BMS Release 2.5.0	Noted in summary of changes	
1-Dec-2008	0.2.1	John Ryu	Post for Final Public Review	Noted in summary of changes	
6- Feb-2009	Issue 0.2.1	John Ryu	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	

Disclaimer

Whilst every effort has been made to ensure that the guidelines to use the GS1 standards contained in the document are correct, GS1 and any other party involved in the creation of the document HEREBY STATE that the document is provided without warranty, either expressed or implied, of accuracy or fitness for purpose, AND HEREBY DISCLAIM any liability, direct or indirect, for damages or loss relating to the use of the document. The document may be modified, subject to developments in technology, changes to the standards, or new legal requirements. Several products and company names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

Table of Contents

1. Business Domain View	5
1.1. Problem Statement / Business Need	5
1.2. Objective.....	5
1.3. Audience.....	5
1.4. References	5
1.5. Acknowledgements	5
1.5.1. eCom BRG	5
1.5.2. Design Team Members	9
2. Business Context	9
3. Additional Technical Requirements Analysis.....	9
3.1. Technical Requirements.....	9
4. Business Transaction View	9
4.1. Business Transaction Use Case Diagram	9
4.2. Use Case Description.....	10
4.3. Business Transaction Activity Diagram.....	10
4.4. Business Transaction Sequence Diagram	10
5. Information Model (Including GDD Report)	11
5.1. GDD Invoice Response	11
5.2. Class Diagrams	12
5.2.1. Class Diagram Invoice Response	12
5.3. Code Lists.....	12
6. Business Document Example	13
6.1. Invoice Response	13
7. Implementation Considerations.....	13
8. Testing.....	13
8.1. Pass / Fail Criteria	13
8.2. Test Data	13
8.2.1. Invoice Response Test Data	13
9. Appendices	14
10. Summary of Changes.....	14

1. Business Domain View

1.1. Problem Statement / Business Need

For some commercial transactions the requesting party requires a formal response by the responding party in order to ensure proper and timely processing. The Invoice Response message enables the responding party to communicate his acceptance or rejection of the Invoice transaction.

1.2. Objective

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

1.3. Audience

- Manufacturers
- Suppliers
- Logistic Service Providers

1.4. References

Reference Name	Description
BMS Common Library	Financial Settlement Version 0.1.0 Version Financial requirements for the Upstream IRT
BRAD Upstream Standards – Financial Settlement	Version 0.1.0
BMS Common Library	BMS Release 2.5.0

1.5. Acknowledgements

1.5.1. eCom BRG

First Name	Last Name	Company
Martin	Beno	GS1 Slovakia
Mike	Blank	3663 First for Foodservice
Kyra	Blankenstein	GS1 Netherlands
Zsolt	Bócsi	GS1 Hungary
Shaun	Bosson	GS1 New Zealand
Dave	Botherway	Melbourne PC User Group
Miriam	Burke	Procter & Gamble Co.

First Name	Last Name	Company
Jean-Luc	Champion	GS1 Global Office
Jasmine	Chew	RosettaNet
Richard	Chresta	GS1 Switzerland
Fatou	COULIBALY	GS1 France
Troy	Denyer	GS1 Australia
Arne	Dicks	GS1 Germany
Marilyn	Dodd	3M Company
Sue	Donarski	Schneider National
Karina	Duvinger	GS1 Sweden
Carol	Edison	General Mills, Inc.
Hussam	El-Leithy	RosettaNet
Chris	Emment	Brakes Food Service
Karen	Feiling	GS1 South Africa
Brian	Finale	UPS
Klaus	Foerderer	GS1 Germany
David	Freedman	Inovis Inc. (US)
Wayne	Gingerich	Werner Enterprises
Joel	Goldberg	Rosenthal & Rosenthal, Inc.
Anders	Grangard	GS1 Global Office
Sara	Halfmann	Best Buy Co., Inc.
John	Hervey	NACS/PCATS
Douglas	Hill	GS1 Denmark
Rob	Hoffman	Hershey Company (The)
Norbert	Horst	GS1 Germany
Sandra	Hurd	CIT Group (The)
Mark	Ingram	Anheuser Busch
Coen	Janssen	GS1 Netherlands
Jim	Jennings	Procter & Gamble Co.
Tan	Jin Soon	GS1 Singapore
Fred	Kempkes	Unilever N.V.
Brendan	Kernan	GS1 Ireland
Atsushi	Koizumi	Ajinomoto Co., Inc.
Vladimir	Kozovic	GS1 Serbia
Anne-Claire	Krid	GS1 France

First Name	Last Name	Company
Carolyn	Kroll	1SYNC
Frank	Kuhlmann	GS1 Germany
Priya	Kunthasami	GS1 New Zealand
CHRISTIAN	LAPORTE	GAZ DE FRANCE
Rita	Laur	GS1 Canada
Sophie	Le Pallec	GS1 France
Guillaume	Lecomte	Firmenich
Sean	Lockhead	GS1 Global Office
Bill	Lohse	Data-Tronics Corporation
Ana Paula	Maniero	GS1 Brasil
Eric	Maree	Accenture Supply Chain Services
Jeff	Melcher	Army & Air Force Exchange Service
Juan	Mengide	GS1 Argentina
Cyndi	Metallo	Gladson Interactive
Carol	Miklusak	1SYNC
James	Morrison	Whirlpool Corporation
Dana	Morton	FedEx
Hirokazu	Nagai	Japan Pallet Rental Corporation
Frank	Napoli	LMI
Corinne	Narbaïts-Jauréguy	GS1 France
Eileen	Naused	McCormick & Company, Inc.
Debra	Noyes	Johnsonville Sausage, Inc
Hideaki	Ohata	Nomura Research Institute, Ltd
Mike	Osiecki	Best Buy Co., Inc.
Phil	Oxley	Compass Group, UK and Ireland Ltd
Esther	Peelen	GS1 Netherlands
Steven	Pereira	GS1 Australia
Uxio	Perez Rodriguez	TLR Soft
Marie	Perry	Coca-Cola Enterprises
Leon	Plaksin	GS1 Australia
Valerie	Post	Link Snacks Inc, Jack Links Beef Jerky
Natascha	Pottier	GS1 France
Steven	Robba	Johnson & Johnson
Pere	Rosell	GS1 Spain

First Name	Last Name	Company
Steven	Rosenberg	GS1 US
Steve	Rowland	GS1 New Zealand
John	Ryu	GS1 Global Office
Hugo	Sabogal	GS1 Colombia
Tracy	Satcho	Eaton Electrical
Akikazu	Sato	Kao Corporation
Kazuya	Sato	GS1 Japan
Sue	Schmid	GS1 Australia
Christian	Schneider	GS1 Switzerland
Jon	Sharratt	Target Corporation
Jeanne	Shavlik-Bork	Kimberly-Clark Corporation
Mary	Shaw	IDEA (Canada)
Emilie	SION	GS1 France
Matthew	Smith	Bunnings Group Limited
Gabriel	Sobrinho	GS1 Netherlands
Stef	Spaan	GS1 Netherlands
Roman	Strand	GS1 Germany
Gina	Tomassi	PepsiCo
Dale	Turner	MediaLibrary Pty Ltd
Monica	Van Haren	Mars, Inc.
Krisztina	Vatai	GS1 Hungary
Claude	Viman	Johnson & Johnson
Akihiro	Watanabe	Izumiy Co., LTD
Sylvia	Webb	GEFEG US
Shan	Welch	GS1 UK
Jan	Westerkamp	GS1 Netherlands
Bekki	Windsperger	Best Buy Co., Inc.
Chi-Wei	Yang	UPS
Marc	Yarbrough	Cadbury plc - North America
Greg	Zwanziger	SUPERVALU

1.5.2. Design Team Members

Function	Name	Organisation
Modeler	John Ryu	GS1 Global Office
XML Technical Designer	Dipan Anarkat	GS1 Global Office
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Brian Bennett	GS1 Global Office

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	Global
Product	All
Process	Pay
System Capabilities	GS1 System
Official Constraints	None

3. Additional Technical Requirements Analysis

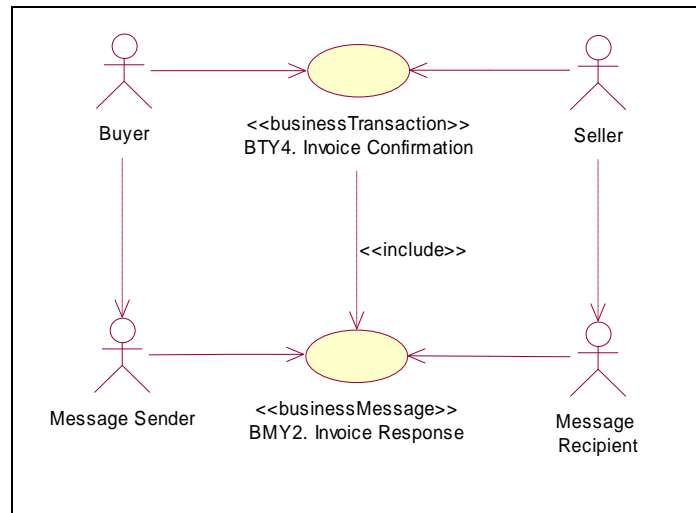
Not Applicable

3.1. Technical Requirements

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	BTY4		
Use Case Name	Invoice Confirmation		
Use Case Description	The buyer confirms that he accepts and will process the Invoice he received from the seller.		
Actors (Goal)	Seller: To ensure that the Invoice is processed. Buyer: To communicate that he will process the Invoice.		
Performance Goals			
Preconditions	Invoice: COMMUNICATED		
Post conditions	Invoice: ACCEPTED or REJECTED		
Scenario	Begins when: Buyer receives the Invoice from the Seller.		
	Continues with:		
	Step #	Actor	Activity Step
	1.	Buyer	Sends Invoice Response message to the Seller.
	2.	Seller	Receives Invoice Response
	Ends when: seller receives the Invoice Response		
Alternative Scenario	Not Applicable		

4.3. Business Transaction Activity Diagram

No Activity Diagram

4.4. Business Transaction Sequence Diagram

No Sequence Diagram

5. Information Model (Including GDD Report)

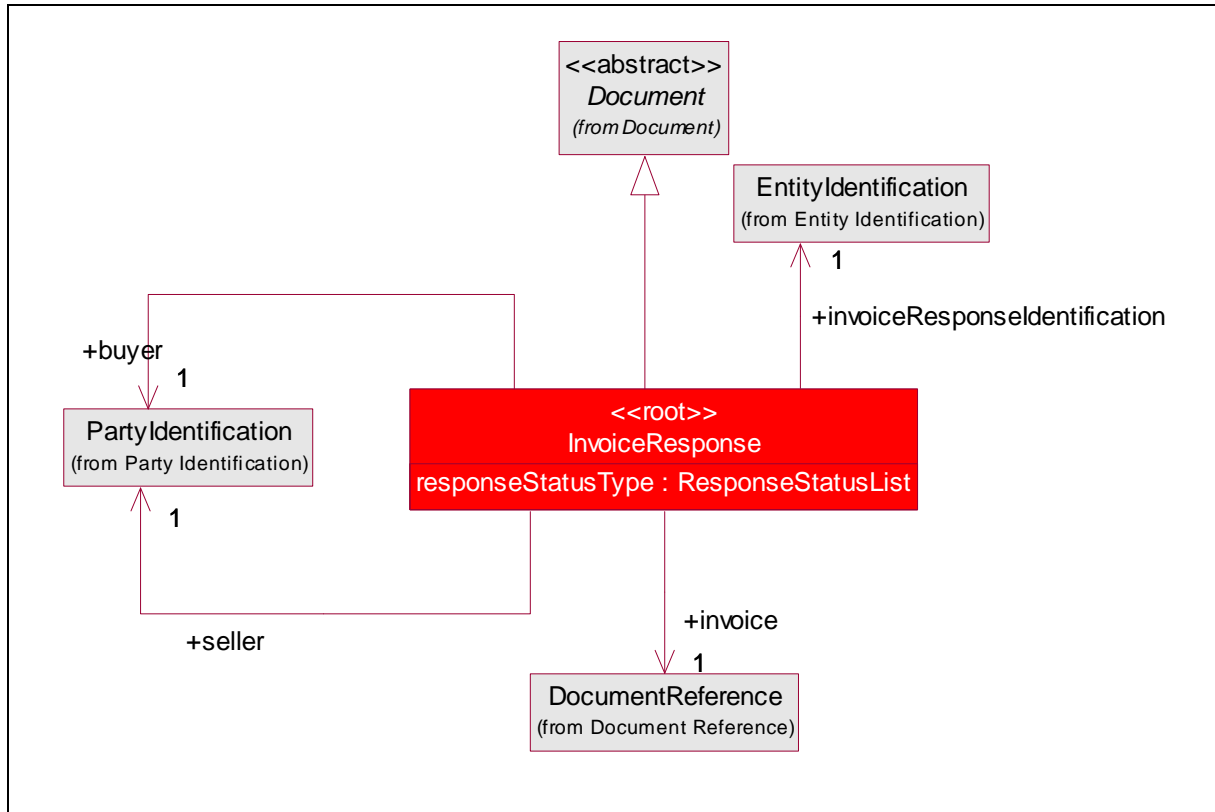
5.1. GDD Invoice Response

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
InvoiceResponse				Invoice Response. Details	Contains the response to the invoice message				
	responseStatusType			Invoice Response. Response Status Type. Response Status List_ Code	Indication that specifies whether the invoice has been accepted or rejected by the buyer.	1..1	Code. Content	BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-6}	Facets constrained by code list values
		<<is a>>		Invoice Response. Details. Generalization. Document	None Provided	1..1		BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-2}	
		buyer	PartyIdentification	Invoice Response. Details. Association. Party Identification	Contains the identification of the party that is buying the goods.	1..1		BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-3}	
		invoice	DocumentReference	Invoice Response. Details. Association. Document Reference	Contains the reference to the invoice message.	1..1		BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-5}	
		invoiceResponseIdentification	EntityIdentification	Invoice Response. Details. Association. Entity Identification	Contains the unique identifier of the business document.	1..1		BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-1}	
		seller	PartyIdentification	Invoice Response. Details. Associated. Party Identification	Contains the identification of the party that is selling the goods.	1..1		BRAD Upstream Standards – Financial Settlement 0.1.0{7.5.1-4}	

5.2. Class Diagrams

5.2.1. Class Diagram Invoice Response

Figure 5-1 Class Diagram Invoice Response



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

6.1. Invoice Response

The manufacturer (buyer 8712345678911) sends a response to the material supplier (seller 8812345678901) indicating that he has accepted the Invoice that he received from the material supplier (Invoice 2005081). The ship to Non Commercial Information

7. Implementation Considerations

Not Applicable

8. Testing

8.1. Pass / Fail Criteria

No.	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1	None				

8.2. Test Data

8.2.1. Invoice Response Test Data

InvoiceResponse	
- creationDateTime	2005-01-11T11.01.00
- documentStatus	ORIGINAL
- responseStatusType	ACCEPTED
EntityIdentification (+invoiceResponseIdentification)	
- uniqueCreatorIdentification	0012
PartyIdentification (+contentOwner)	
- gLN	8712345678911
PartyIdentification (+seller)	
- gLN	8812345678901
PartyIdentification (+buyer)	
- gLN	8712345678911
DocumentReference(+invoice)	
EntityIdentification	
- uniqueCreatorIdentification	2005081
PartyIdentification (+contentOwner)	
- gLN	8812345678901

9. Appendices

None

10. Summary of Changes

Change	BSD Version	Associated CR Number
Changes were not document for BMS Release 2.1.0		05-252
There were no changes to UML or business requirements. BMS was upgraded to newest template version to work with invoice BMS Release 2.5.0	0.2.0	08-209
Updated footer and post for final public review for BMS Release 2.5.0	0.2.1	
Updated BMS to Approved Status eBallot Approved Release 2.5.0	Issue 0.2.1	