



Business Message Standard (BMS) Invoice Response

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
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	

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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 0.1.0Version 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

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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

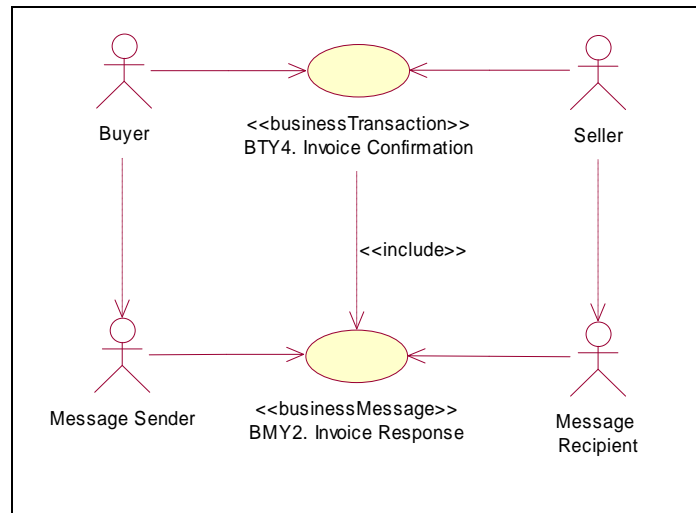
Not Applicable

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	<p>Begins when: Buyer receives the Invoice from the Seller.</p> <p>Continues with:</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 Invoice Response message to the Seller.</td> </tr> <tr> <td>2.</td> <td>Seller</td> <td>Receives Invoice Response</td> </tr> </tbody> </table> <p>Ends when: seller receives the Invoice Response</p>	Step #	Actor	Activity Step	1.	Buyer	Sends Invoice Response message to the Seller.	2.	Seller	Receives Invoice Response
Step #	Actor	Activity Step								
1.	Buyer	Sends Invoice Response message to the Seller.								
2.	Seller	Receives 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)

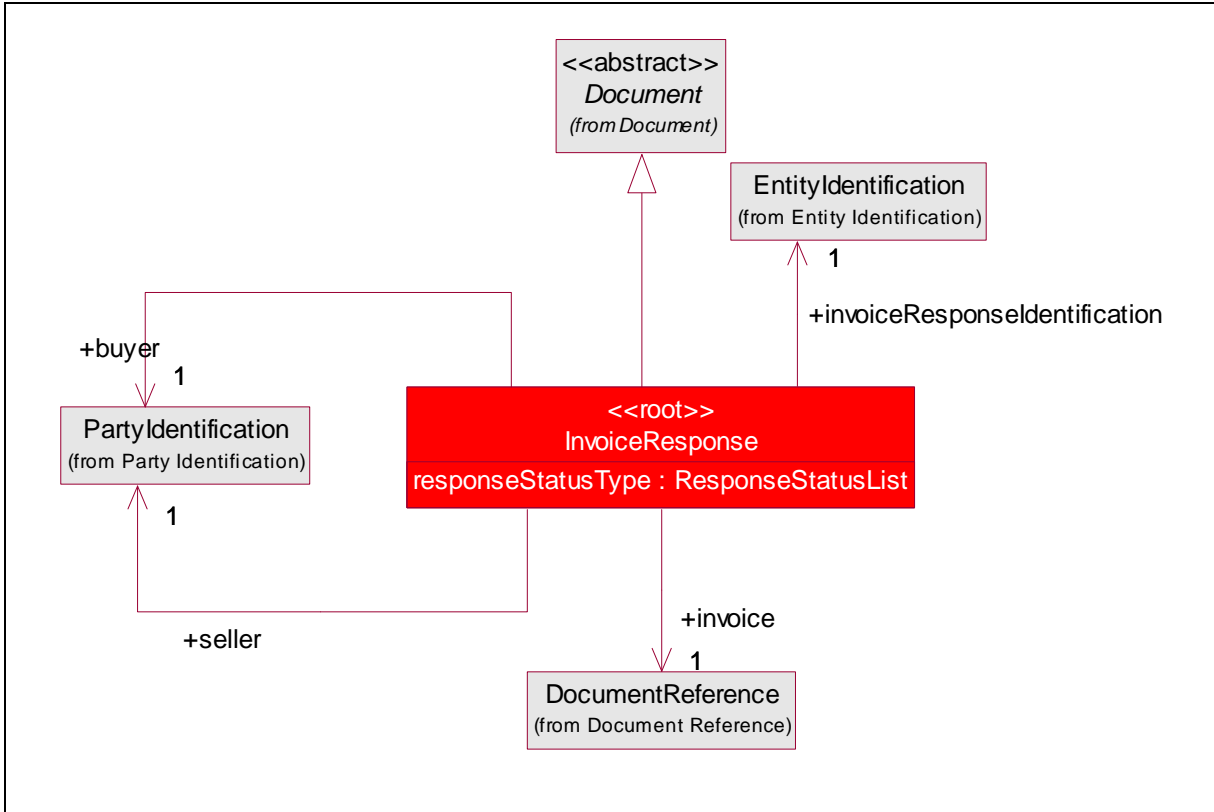
5.1. GDD Invoice Response

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	