

Business Message Standard (BMS)

for

Order Response

(Process/Sub-process/Industry and/or Product/Geopolitical)

BRG: Order

Version:0.1.7

(r stands for revision number of a version)

Date: 31/05/2005

(dd/mm/ccyy)



Change Request Reference

Refer to Change Request (CR) Number(s):	03-000145 05-000023
CR Submitter(s):	JJ on behalf of OFSCI (Foodservice Supply Chain Initiative) RK on behalf of IRT Upstream Standards
Date of CR Submission to GSMP:	20031030 20050131

Business Requirements Document (BRAD) and Business Message Standard (BMS) Reference

BRAD Title: BRD for UK Food Service Ordering
BRAD Date: 20041124
BRAD Version: 0.8

BRAD Title: BRAD for Upstream Standards Demand & Supply Signals
BRAD Date: 20041101
BRAD Version: 0.1.0

BMS Title: BRAD for Upstream Standards Demand & Supply Signals
BMS Date: 20050407
BMS Release Version: 2.0.2
BMS Document Version: 0.1.7

Document Summary

Document Title:	Order Response
Document Version	0.1.7
Owner:	Order
Status:	(Check one box) <input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> Approved
BMS Template Version:	1.1
Targeted BMS Publication Version	2.0.2

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20050120	0.1.0	JR	Initial Draft	Initial Draft	5621
20050203	0.1.1	MVC	Adjustments on the text according to comments received on teleconference 20040126		
20050215	0.1.2	JR	Submit for Public Review Needed definitions and GDD platform needs to be updated.	View Summary of Changes section 1.10	Model P4CL: 5778 BSD P4CL: 5779
20050318	0.1.3	MVC	Adjustments on the text according to resolutions on the comments received during the public review. Closed and approved initial 14 comments.	View Summary of Changes section 1.10	
20050330	0.1.4	MVC	Adjustments on the text according to resolutions on the comments received during the public review. Remain comments.	View Summary of Changes section 1.10	BSD P4CL: 6346
20050406	0.1.5	JR	Incorporation of Public Review Comments	Activity Diagram 1.3.4 Removed reference to ARA. Class Diagram 1.5.3 Fixed typos in notes resposneStatus - s/b responseStatus ammended value - s/b	MDL P4CL: 6352 BSD P4CL: 6359

				<p>amended value</p> <p>Modificaiton - s/b Modification</p> <p>Changed association from the detail level to the header level</p> <p>Before: OrderModificationLineItemLevel ASSOCIATES OrderLogisticalDateGroup</p> <p>After : OrderModification ASSOCIATES OrderLogisticalDateGroup</p> <p>In common library added creationDateTime: DateTime in the ResponseDocument class.</p> <p>Pasted GDD Platform into section 1.5.2</p> <p>Added new business examples in section 1.6</p> <p>Added new test data in section 1.8.2</p>	
20050531	0.1.6	JR	Incorporation of ITRG comments	<p>Referenced common library version in BSD.</p> <p>Added another business document example in section 1.6 and inserted new definition for substitute Item Identification as "Identifies the original GTIN of the substituted item."</p> <p>Updated Data Description and GDD to reflect ITRG comments.</p>	BSD P4CL: 6739
20072304	0.1.7	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	

Business Message Standard

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1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

The Order Response provides the ability for a supplier to respond to an order previously sent by the buyer.

The Order Response allows the seller to inform:

- The acceptance of the entire order as transmitted, or
- The acceptance of the order with modifications on items (substitutes), quantities, prices and/or dates.
- The rejection of the entire order.

1.1.2 Objective

To supply the detail design of the order response business transaction needed to meet the requirements of the referenced BRAD(s):

BRAD Title: BRD for UK Food Service Ordering

BRAD Date: 20041124

BRAD Version: 0.8

BRAD Title: BRAD for Upstream Standards Demand & Supply Signals

BRAD Date: 20041101

BRAD Version: 0.1.0

1.1.3 Audience

The audience for this document is the global business community, the senders and receivers of purchase orders, changes to purchase orders, and responses

1.1.4 Artefacts

Artefact name	State	Artefact / State description
None		

1.1.5 References

Reference Name	Description
BRD OFSCI Order V1.0	BRD Submitted with CR by the submitter
BRD Order Receipt Acknowledgment v 0.3	BRD submitted by EAN Singapore (CR 03-00175). Describes the business requirements in order to assure that their trading partners receive their Orders
BRD XML Application Receipt Acknowledgement and/pr Error v 0.3.7	BRD resulted from bundling the CR 03-00175 and CR 02-000134. The document outlines the requirements and supporting processes for a business application level acknowledgement of the receipt of a Message and optional indication of detected errors

1.1.6 Acknowledgements

1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Chair	Bill Purnell	Foot Locker
BRG Member	Marcelo Alonso	GS1 Argentina
BRG Member	Alice Agumon	GS1 France
BRG Member	Frederico Cunha	GS1 Brazil
BRG Member	John Jackson	Unilever UK
BRG Member	Caren Kaegebein	VF Corporation
BRG Member	Frank Kuhlmann	GS1 Germany
BRG Member	Thomas Moriarty	JC Penney Co. Inc
BRG Member	Naoto Sakamoto	GS1 Japan
BRG Member	Johnny Tang	GS1 Hong Kong
BRG Member	Don Weston	Pfizer Canada
BRG Member	Steve Wilhoit	Eveready Battery Company

1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair	Carol Edison	General Mills. Inc
ITRG Member	Marilyn Dodd	3M Company
ITRG Member		
ITRG Member		

1.1.6.3 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant	Tan Jin Soon	EAN Singapore
Participant	Fred Kempkes	Unilever
Participant	Regenald Kramer	GS1 HO

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	John Ryu	GS1
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer	Coen Janssen	GS1 Nederland

1.2 Business Context

Context Category	Value(s)
Geopolitical	Global
Industry	All
Process	Ordering
Product	All
Roles	Buyer, Seller
Supporting Role	In All Contexts
System Capability	EAN.UCC system

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

None at this time.

Number	Statement	Rationale

1.4 Business Transaction View

1.4.1 Business Transaction Use Case Diagram

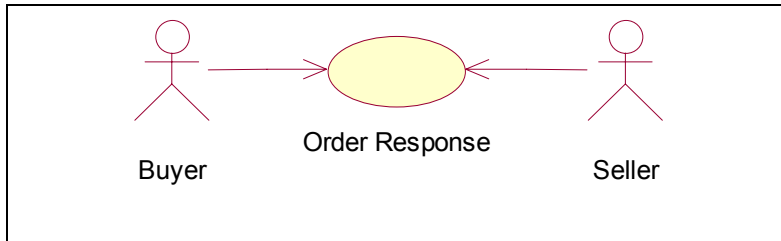


Figure 1 Order Response Use Case Diagram

1.4.2 Use Case Description

Use Case ID	UC-1
Use Case Name	Send Order Response
Use Case Description	<p>The seller needs to inform the buyer about the:</p> <ul style="list-style-type: none">• Acceptance of the entire order as transmitted.• The acceptance of the order with modifications on items (substitutes), quantities, prices and/or dates.• Rejection of the entire order.
Actors (Goal)	Buyer Seller
Performance Goals	
Preconditions	<p>The following information should be pre aligned:</p> <ul style="list-style-type: none">- Party Information,- Item Information,- Payments terms- Pricing information- Product substitution details, residual product life requirements and promotional lines.- A trading partner agreement is in place that identifies pre-agreed product substitution.- A trading partner agreement may exist regarding Response Receipt Lead

	<p>Time: The agreed on time that is allowed to elapse between when a Buyer sent an Order to the Seller and the Seller is to send an Order Response. to the Buyer</p> <p>- The Seller has received the Order from the Buyer</p>												
Post conditions	<ul style="list-style-type: none">• Acceptance of the entire order as transmitted_: Buyer – Knows that the order has been accepted and has received an Order Response Seller – Has agreed to fulfil the order in full• Acceptance of the order with modifications : Buyer – Knows that the order has been accepted and has received an Order Response. Seller – Has agreed to fulfill the order with modifications on items (substitutes), quantities, prices and/or dates• Rejection of the entire order. Buyer – Knows that the order has been rejected and has received an Order Response Seller – Has rejected the order in full												
Scenario	<p>Begins when the seller receives an order from the buyer</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Seller</td><td>Decides to accept the order with no modifications</td></tr><tr><td>2</td><td>Seller</td><td>If not, the Seller decides:<ul style="list-style-type: none">• to accept the order with modifications on items (substitutes), quantities, prices and/or dates• whether to reject the entire order</td></tr><tr><td>3</td><td>Seller</td><td>Sends an Order Response</td></tr></table> <p>Ends when the buyer has received the order response from the seller.</p>	Step #	Actor	Activity Step	1	Seller	Decides to accept the order with no modifications	2	Seller	If not, the Seller decides: <ul style="list-style-type: none">• to accept the order with modifications on items (substitutes), quantities, prices and/or dates• whether to reject the entire order	3	Seller	Sends an Order Response
Step #	Actor	Activity Step											
1	Seller	Decides to accept the order with no modifications											
2	Seller	If not, the Seller decides: <ul style="list-style-type: none">• to accept the order with modifications on items (substitutes), quantities, prices and/or dates• whether to reject the entire order											
3	Seller	Sends an Order Response											
Alternative Scenario	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer Seller</td><td></td></tr></table>	Step #	Actor	Activity Step	1	Buyer Seller							
Step #	Actor	Activity Step											
1	Buyer Seller												
Related Requirements	None												
Related Rules	<table><tr><td>1</td><td>If the order is accepted as transmitted, there is no item level information needed in the order response. The response status submitted within the order response must be ACCEPTED.</td></tr><tr><td>2</td><td>If the order is accepted with modifications on the item level, only the changed items need to be included in the order response. Per changed item all attributes, not only the changed ones, have to be transmitted in the order response. A reference to the line number in the original order must be used. If a substitute article with a new GTIN is used, the GTIN of the original article is</td></tr></table>	1	If the order is accepted as transmitted, there is no item level information needed in the order response. The response status submitted within the order response must be ACCEPTED.	2	If the order is accepted with modifications on the item level, only the changed items need to be included in the order response. Per changed item all attributes, not only the changed ones, have to be transmitted in the order response. A reference to the line number in the original order must be used. If a substitute article with a new GTIN is used, the GTIN of the original article is								
1	If the order is accepted as transmitted, there is no item level information needed in the order response. The response status submitted within the order response must be ACCEPTED.												
2	If the order is accepted with modifications on the item level, only the changed items need to be included in the order response. Per changed item all attributes, not only the changed ones, have to be transmitted in the order response. A reference to the line number in the original order must be used. If a substitute article with a new GTIN is used, the GTIN of the original article is												

		indicated in the substituteTradeItemClass. The response status within the order response must be MODIFIED
	3	If the order is accepted with modifications in the orderLogisticalDateGroup, the whole group including all attributes, not only the changed ones, must be transmitted in the order response. The response status within the order response must be MODIFIED.
	4	In the case of substitutions, the order line will be returned with the product identification associated with the substituted item, quantity and the original line number. This will detail the new product and quantity based on the agreed substitution rules (as per trading partner agreement)
	5	If the order rejected, there is no item level information needed in the order response. The response status submitted within the order response must be REJECTED

1.4.3 Business Transaction Activity Diagram(s)

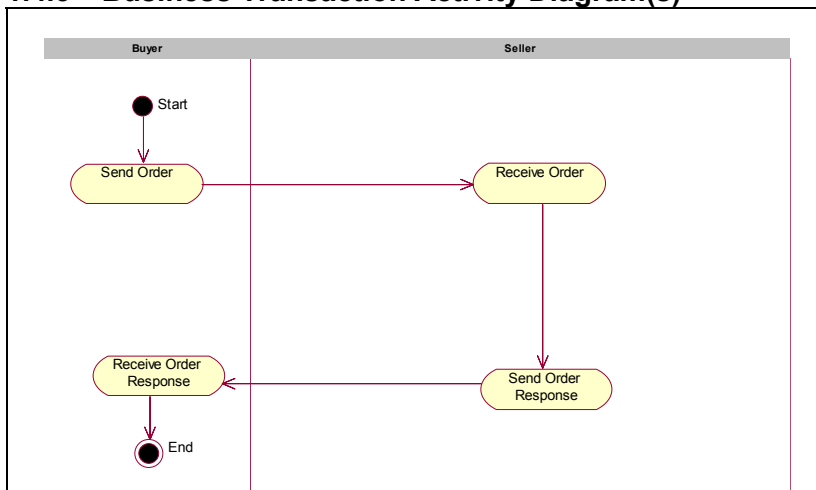


Figure 2 Order Response Activity Diagram

1.4.4 Business Transaction Sequence Diagram(s) (optional)

No Sequence Diagram

Business Solution Design

1.5 Information Model (including GDD Report)

1.5.1 Data Description:

(Contains list of attributes included in the model and the related requirement which led to its inclusion in the design.)). .

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
OrderModification				BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		AmendedDateTimeValue	OrderLogisticalDateGroup	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		None	OrderModificationLineItem-Level	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
OrderModificationLineItemLevel				BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
				BRAD Version: 0.1.0
		modifiedOrderInformation	SimpleOrderLineItem	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		substituteItemIdentification	TradeItemIdentification	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
OrderResponse				BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		buyer	PartyIdentification	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		None	OrderModification	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
				BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		seller	PartyIdentification	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0
		None	ResponseDocument	BRAD Title: BRD for UK Food Service Ordering BRAD Date: 20041124 BRAD Version: 0.8 BRAD Title: BRAD for Upstream Standards Demand & Supply Signals BRAD Date: 20041101 BRAD Version: 0.1.0

1.5.2 GDD Report :

Order Response

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
OrderModification				Order Modification. Details	Contains the modifications on items (substitutes), quantities, prices and/or dates of the original order.	
		amendedDateTimeValue	OrderLogisticalDateGroup	Order Modification. Association. Order Logistical Date Group	Contains the modifications on dates or date ranges of the original order.	0..1
		None	OrderModificationLineItemLevel	Order Modification. Association. Order Modification Line Item Level	Contains the modifications per line item on items (substitutes), quantities, prices of the original order.	0..*
OrderModificationLineItemLevel				Order Modification Line Item Level. Details	Contains the modifications per line item on items (substitutes), quantities, prices and/or of the original order	
		modifiedOrderInformation	SimpleOrderLineItem	Order Modification Line Item Level. Association. Simple Order_ Purchase Order Line	Contains the modifications per line item on quantities or prices of the original order.	1..1
		substituteItemIdentification	TradeItemIdentification	Order Modification Line Item Level. Association. Trade Item Identification	Identifies the original GTIN of the substituted item.	0..1
OrderResponse				Order Response. Details	Provides the ability for a supplier to respond to an order previously sent by	

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					the buyer.	
		buyer	PartyIdentification	Order Response. Buyer. Party Identification	Identifies the Party to which merchandise is sold.	1..1
		None	OrderModification	Order Response. Association. Order Modification	Contains the modifications on items (substitutes), quantities, prices and/or dates of the original order.	0..1
		seller	PartyIdentification	Order Response. Seller. Party Identification	Identifies the Party, which sells products or services to a buyer	1..1
		None	ResponseDocument	Order Response. Inheritance. Response Document	Specifies the type of response and the information of the referenced document	1..1

1.5.3 Class Diagrams

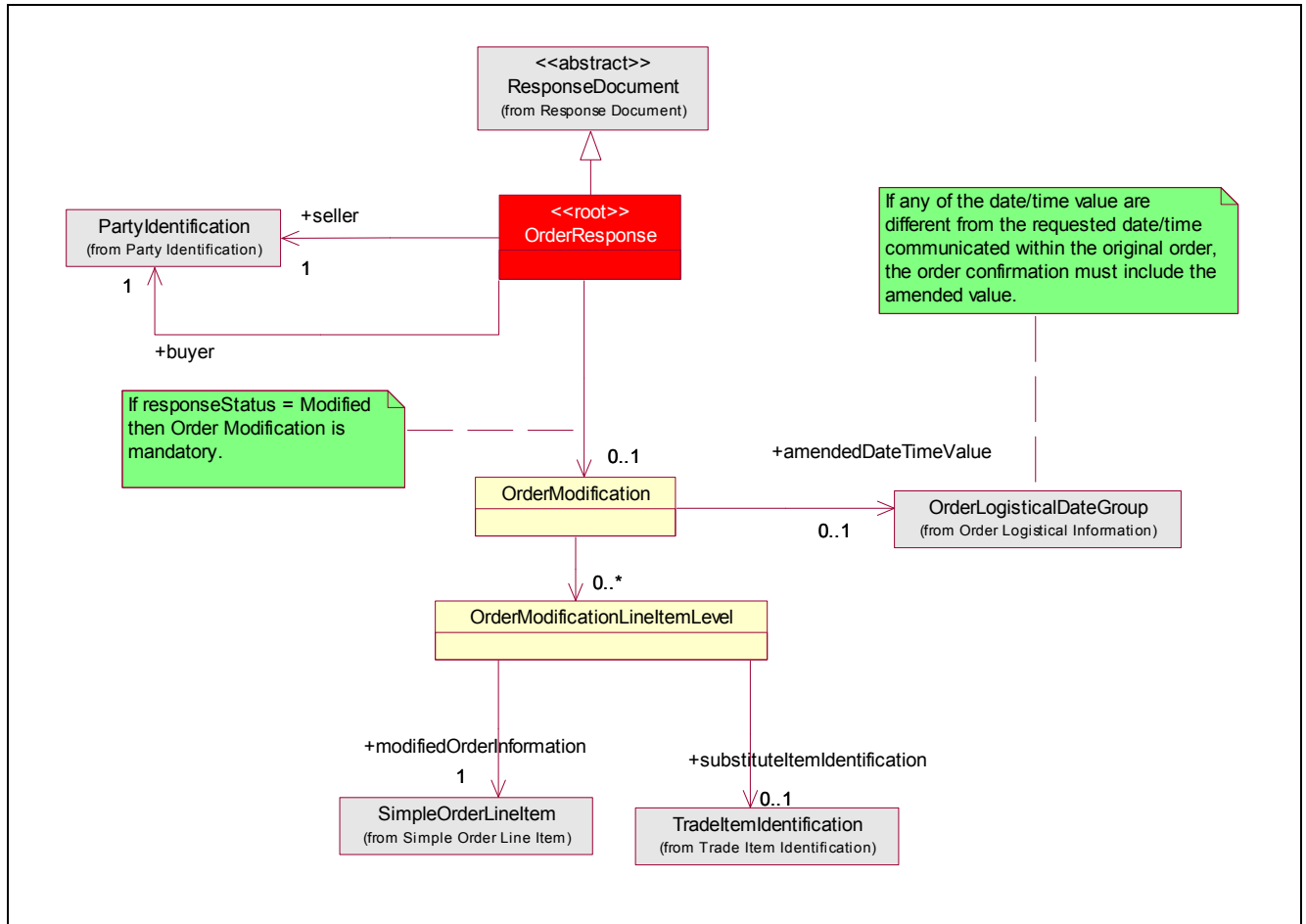


Figure 3 Order Response Class Diagram

Reference Common Library BSD for details on external reused components

1.5.4 Code Lists

Reference the Common Library for the Response list

1.6 Business Document Example

Example A

A seller identified by the EAN.UCC Global Location Number 4098765000010 has received an order from the buyer identified by the EAN.UCC Global Location Number 5412345000013 and is sending his response.

The identification of the order received is PO02109 on 3rd of November 2003 and was requested to be delivered on the 10th of November 2003.

The buyer ordered the following:

EAN.UCC Global Trade Item Number (GTIN)	Quantity
4098765000027	48
4098765000034	24

The seller has accepted the order. It will be delivered the 10th of November 2003; however, the quantity available for the trade item identified with the EAN.UCC Global Number (GTIN) 4098765000027 is 40. The Order Response identification is: OR 002508 and it is created on November 4th 2003 at 10:00 AM.

Example B

A seller identified by the EAN.UCC Global Location Number 4098765000010 has received an order (PO022214) from the buyer identified by the EAN.UCC Global Location Number 5412345000013 and is sending his response: Acceptance of the entire order as transmitted

The Order Response identification is: OR 002760 and it is created on February 10th 2004 at 8::00 AM.

Example C

A seller identified by the EAN.UCC Global Location Number 4098765000010 has received an order (PO09873) from the buyer identified by the EAN.UCC Global Location Number 5412345000013 and is sending his response: Rejection of the entire order.

The Order Response identification is: OR 003895 and it is created on April 3rd 2004 at 11::00 AM.

Example D

A seller identified by the EAN.UCC Global Location Number 4098765000010 has received an order from the buyer identified by the EAN.UCC Global Location Number 5412345000013 and is sending his response.

Business Solution Design

The identification of the order received is PO0825 on 12th of September 2004 and was requested to be delivered on the 30th of September 2004.

The buyer ordered the following:

EAN.UCC Trade Item (GTIN)	Global Number	Quantity
4098765000133		36
4098765000089		24

The seller has accepted the order. However, the trade item identified with the EAN.UCC Global Number (GTIN) 4098765000133 is not available and it will be substituted with the trade item identified with the EAN.UCC Global Number (GTIN) 4098765000348

The Order Response identification is: OR 1211 and it is created on September 12th 2004 at 08:00 AM.

1.7 Implementation Considerations

No Implementation Consideration

1.8 Testing

1.8.1 Pass / Fail Criteria

Not applicable or defined at the time

Nu mb er	Test Criteria	Related Re- quirement	Design Element	Pass Criteria	Fail Criteria
1	None				

1.8.2 Test Data

Example A:

Response Document	
Response Status Type	MODIFIED
Creation Date Time	2003 – 11 -04 10:00
Response Identification – Entity Identification	
Unique Creator Identification	OR 002508
Content Owner	4098765000010
Response to Original Document - Reference Document	
Reference Document Type	ORDER

Business Solution Design

Reference Identification	PO02109
Reference Date Time	2003-11-03
Party Information	
Seller (GLN)	4098765000010
Buyer (GLN)	5412345000013
Order Modification	
Order Logistical Date Group	
Requested Delivery Date– Logistical Date	
Date	2003 -11- 10
Order Modification Line Item Level	
Modified Order Information – Simple Order Line	
Line Item	1
Trade Item Identification (GTIN)	4098765000027
Requested Quantity	40

Example B:

Response Document	
Response Status Type	ACCEPTED
Creation Date Time	2004 – 02 -10 08:00
Response Identification – Entity Identification	
Unique Creator Identification	OR 002760
Content Owner	4098765000010
Response to Original Document - Reference Document	
Reference Document Type	ORDER
Reference Identification	PO022214
Party Information	
Seller (GLN)	4098765000010
Buyer (GLN)	5412345000013

Example C:

Response Document	
Response Status Type	REJECTED
Creation Date Time	2004 – 04 -03 11:00
Response Identification – Entity Identification	
Unique Creator Identification	OR 003895
Content Owner	4098765000010
Response to Original Document - Reference Document	
Reference Document Type	ORDER
Reference Identification	PO09873
Party Information	
Seller (GLN)	4098765000010

Buyer (GLN)	5412345000013
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Example D:

Response Document	
Response Status Type	MODIFIED
Creation Date Time	2004 – 09 -12 08:00
Response Identification – Entity Identification	
Unique Creator Identification	OR 1211
Content Owner	4098765000010
Response to Original Document - Reference Document	
Reference Document Type	ORDER
Reference Identification	PO0825
Reference Date Time	2004-09-12
Party Information	
Seller (GLN)	4098765000010
Buyer (GLN)	5412345000013
Order Modification	
Order Modification Line Item Level	
Modified Order Information – Simple Order Line	
Line Item	1
Trade Item Identification (GTIN)	4098765000348
Requested Quantity	36
Substitute Item Identification – Trade Item Identification	
Trade Item Identification (GTIN)	4098765000133

1.9 Appendices

No Appendices

1.10 Summary of Changes

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

Change	BMS Ver- sion	Associated CR Number
Initial Draft	V 0.1.0	CR 03-145

<p>Created ResponseDocument class which includes.</p> <p>ResponseStatusType</p> <p>ResponseIdentification</p> <p>Information on (responseToOriginalDocument)</p> <p>ReferenceDocumentType</p> <p>ReferenceIdentification</p> <p>ReferenceDateTime[0..1]</p> <p>Updated activity and use case diagram to reflect change in BSD title.</p>	V0.1.2	
<p>Update text according to the resolution on the first 14 comments received during the public review period:</p> <ul style="list-style-type: none">- Clarification on possible modifications- Typos:- Better wording in Use Case Description- Include Related Rules information in the Use Case Description.	V 0.1.3	
<p>Update text according to the resolution on the rest of comments received during the public review period:</p> <ul style="list-style-type: none">- Population GDD definitions- Updates in the business examples and test data	V.0.1.4	

2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm.

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
 - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an example of what a Style Sheet may look like.
 - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
 - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest