Business Message Standard (BMS) Order

BMS Release: 2.6.0, BRG Name: eCom

Issue 0.11.0, 30-Oct-2009

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Order
BMS Release	2.6.0
BRG Name	eCom
Document Number	Issue 0.11.0
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BMS Template Version	1.9

Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
06-May-2009	Stef Spaan, GS1 Netherlands	09-000134
20- Aug- 2008	John Ryu, GS1	08-000209
21 – Mar- 2007	Stef SPAAN, GS1 Netherlands	07-000098
12- Mar – 2007	Stef SPAAN, GS1 Netherlands	07-000077
06 – Feb – 2006	GS1 Global Office	06-000039
13- Nov -2003	Foot Locker	03-000167
20 – Oct -2003	Unilever Bestfood UK	03-000145
29 – Oct - 2001	Venator	01-000094

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
Order	20- May-2004	1.4.4
UK Food Service Ordering	9-Jul-2004	0.2
BRAD eCom Maintenance Release 2 BMS 2.6.0	29-Jun-2009	Version 0.1.1

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
09- Aug-2004	0.1	Vicky CARO	Incorporation of UK Food Service Requirements	The intention of updating the Order publication is to include the business requirement from the user community that needs the capability to issue a Cross Docking Order and UK Foodservice Order using the EAN.UCC XML standards. Cross Dock Order is the process where the buyer sends an Order specifying an intermediate destination in addition to the final destination. The seller packs individually per final destination and ships all the items in the order to one cross-docking destination. For more information, refer to "Guide to use the XML EAN.UCC standards for Cross Docking Order, v 0.3, May, 2004 The UK Foodservice Order process provides the ability for a buyer to order variable Quantities of trade items/services in the UK Foodservice sector.	
16-Aug-2004	0.2	Vicky CARO	Incorporate comments and adjustments on the text and models as a result of Order BRG meeting on 20040811	▪ Update list of Order BRG members ▪ Adjustments of the Data Description section and Class Diagrams: ▪ Consistency with BRD Order 1.4.4 ▪ Elimination of Contract reference date ▪ Inclusion of unit of measurement within the attributes of Order Line item.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
03-Sep-2004	0.3	Vicky CARO	Incorporate comments and adjustments on the text and models as a result of Order BRG meeting on 20040825	Adjustments of the Data Description section and Class Diagrams: use of Contract reference	
11-Oct -2004	0.4	Vicky CARO	Incorporate decisions on comments received during public review Adjust the document according to new template approved	■ Update document to BMS template approved 20041001 ■ Adjustments on text for clarifications. Section: 1.1.1, ■ Adjustments on the data descriptions for clarification. Section 1.5.1 ■ Adjustments on text and diagram agreed after public review comments resolution.	
17- Feb-2005	0.5.0	John RYU	Based on emails from Vicky CARO	■ Harmonized the model ■ Updated the GDD Platform ■ For details view section 10 Summary of Changes	Model P4CL: 5772 BSD P4CL: 5773
18- Feb-2005	0.6.0	John RYU and Vicky CARO	Updates Seeking Motion for XML Development.	■ Updated missing definitions ■ Updated Test Data	Model P4CL: 5774 BSD P4CL: 5776
15- Mar - 2005	0.7.0	John RYU	Copied GDD from GDD platform	Section 1.4.6	BSD P4CL: 6035
06 – Apr- 2006	0.8.0	John RYU	Upgrade for BMS Version 2.1 release	Upgraded Order for BSM Release version 2.1	BSD P4CL:8242
09 – Jul - 2007	0.9.0	John RYU	Upgrade for BMS Version 2.4 Release Submitted for Peer Review	Noted in Summary of Changes	MDL P4CL: 9608 BSD P4CL: 9610
18 – Jul-2007	0.9.1	John RYU	eCom BRG Motioned for TSD Development	Noted in Summary of Changes	BSD P4CL: 9666
24- Aug- 2007	0.9.2	John RYU	Completed TSD Development	Posted for Public Review	BSD P4CL: 9794
11- Sep-2007	0.9.3	John RYU	Incorporate Public Review Resolution Eballot Begins 20070911 and ends 20070925	Noted in Summary of Changes	BSD P4CL: 9940
25- Sep-2007	0.9.4	John RYU	eCom BRG eBallot Approved	Updated BMS to Approved	BSD P4CL: 9999
24 – Oct - 2008	0.10.0	John RYU	1st draft for Release 2.5.0	Noted in summary of changes	MDL10644 BSD 10645

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
01-Dec -2008	0.10.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	NOT APPLICABLE
06-Feb-2009	Issue 0.10.1	Lisa Herrick	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	NOT APPLICABLE
17-Jul-2009	Draft 0.11.0	Lisa Herrick	BMS Release 2.6.0 Initial Version	No content changes. Released as companion document to Order Response.	11180
30-Oct-2009	0.11.0 Issue	Lisa Herrick	BMS Release 2.6.0 eBallot Approved	Updated to Issue	NOT APPLICABLE

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1. Business Domain View

1.1. Problem Statement / Business Need

The Order provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.

The Order may be used alone when the buyer and seller have aligned data such as parties, item, pricing, payment terms, etc., prior to order creation.

The process is simplified by having one order placed for one delivery for one location at one time.

1.2. Objective

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

The objective is to upgrade the GS1 Order Message standard, according to the requirements of the referenced change request in the Change Request Reference section.

1.3. Audience

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

1.4. References

Reference Name	Description
Order Business Requirements Document	BRD Version 1.4.4
UK Food Service Ordering BRD	BRD Version 0.2
Business Requirements Analysis Document (BRAD) For Multi Shipment Order Receipt Response and Excise Tax Free	BRAD Version 0.0.4
Common Library	BMS Version 2.6.0

1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

1.5.1. BRG Work Group

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1.5.2. Design Team Members

Function	Name	Organisation
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XML Technical Designer	Dipan Anarkat	GS1 Global Office
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Eric Kauz	GS1 Global Office

2. Business Context

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

3. Additional Technical Requirements Analysis

Not Applicable

3.1. Technical Requirements (optional)

Number	Statement	Rationale
	Not Applicable	

4. Business Transaction View

4.1. Business Transaction Use Case Diagram Ordering

Buyer   Ordering of Trade Items   Seller
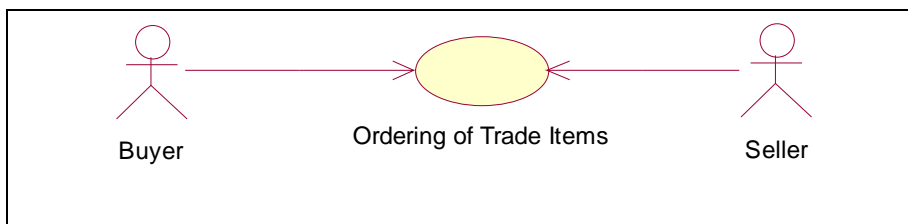
4.2. Use Case Description

Use Case ID	UC-1
Use Case Name	Ordering of Trade Items
Use Case Description	This Use Case provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.
Actors (Goal)	Buyer, Seller
Performance Goals	The seller has received the order sent by the buyer.
Preconditions	The Buyer and Seller have aligned Party and Item information.
Post conditions	Success: The Seller has received the Order sent by the Buyer. Failure: The Seller hasn't received the Order sent by the Buyer
Scenario	**Begins when**... the Buyer sends the Order to the Seller.. **Continues with**...

Step #	Actor	Activity Step
1		
2		
3		

Ends when... Ends

Alternative Scenario	Step #	Actor	Activity Step
	1	Not Applicable	
	2		
	3		

Related Requirements	Not Applicable
Related Rules	Not Applicable

4.3. Business Transaction Activity Diagram(s)

Not Applicable

4.4. Business Transaction Sequence Diagram(s) (optional)
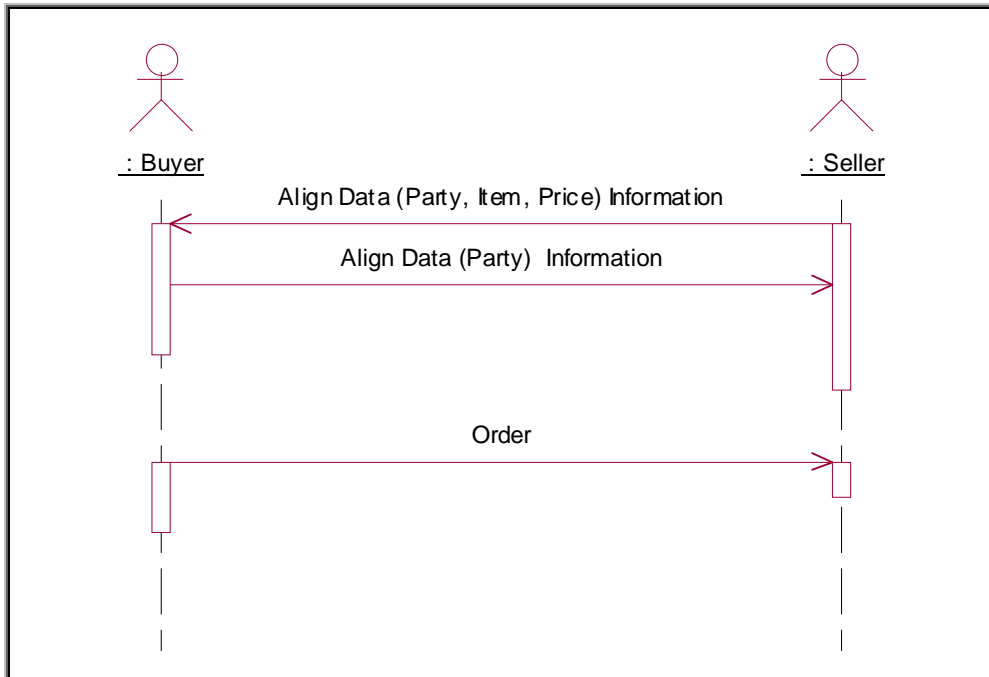
# 5. Information Model (Including GDD Report)

5.1. GDD Report Order

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
Order				Purchase Order. Details	The Order provides the ability for a buyer to order specified quantities of goods and services from a seller for a single shipment to or from a single location.			BRD For Order V 1.4.4	
	specialDelivery Note			Purchase Order. Special Delivery Note_ Description. Language_ Text	Specify delivery instructions for the order that cannot be categorized into predefined values.	0..1	Language. Identifier Language. Locale. Identifier Text. Content	BRD For Order V 1.4.4	Unbounded
			AllowanceChar ge	Purchase Order. Association. Allowance Charge	Contains the information related with the allowance charge involved in the order process.	0..*		BRD For Order V 1.4.4	
			Document	Purchase Order. Inheritance_ Association. Electronic_ Document	Contains the information related with the document in the Order.	1..1		BRD For Order V 1.4.4	
		orderIdentificatio n	EntityIdentificati on	Purchase Order. Association. Entity Identification	The unique identification of the Order	1..1		BRD For Order V 1.4.4	
			OrderHeaderIn dicator	Purchase Order. Association. Order Header Indicator	Provides the order header indicator information.	0..1		[BRAD For Multi Shipment Order Receipt Response and Excise Tax Free V 0.0.4] {BR 1 BR 2} CR 8-209	
			OrderLineItem	Purchase Order. Line Item. Purchase Order Line	Specify the information related to each line item within the order.	1..*		BRD For Order V 1.4.4	
			OrderLogisticalI nformation	Purchase Order. Association. Order_ Logistical Information Group	Contains the information related with the dates and destinations of the goods or services.	1..1		BRD For Order V 1.4.4	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
			OrderPartyInformation	Purchase Order. Association. Order_ Party Group	Contains the information related with the parties involved in the order process	1..1		BRD For Order V 1.4.4	
			PaymentTerms	Purchase Order. Association. Payment Terms	Contains the information related with the payment terms in the Order.	0..*		BRD For Order V 1.4.4	
			TradeAgreement	Purchase Order. Association. Trade Agreement	Specify the trade agreement that the order is referring to.	0..1		BRD For Order V 1.4.4	
OrderLineItem				Purchase Order Line. Details	Order Line Item provides the order detail line item information.			BRD For Order V 1.4.4	
			AllowanceCharge	Purchase Order Line. Association. Allowance Charge	Contains the information related with the allowance charge in the detail order level.	0..*		BRD For Order V 1.4.4	
			SimpleOrderLineItem	Purchase Order Line. Inheritance_ Association. Simple_ Purchase Order Line	Specify the information related to each line item within the order.	1..1		BRD For Order V 1.4.4	

5.2. Class Diagrams

5.2.1. Order

Figure 5-1 Class Diagram: Order
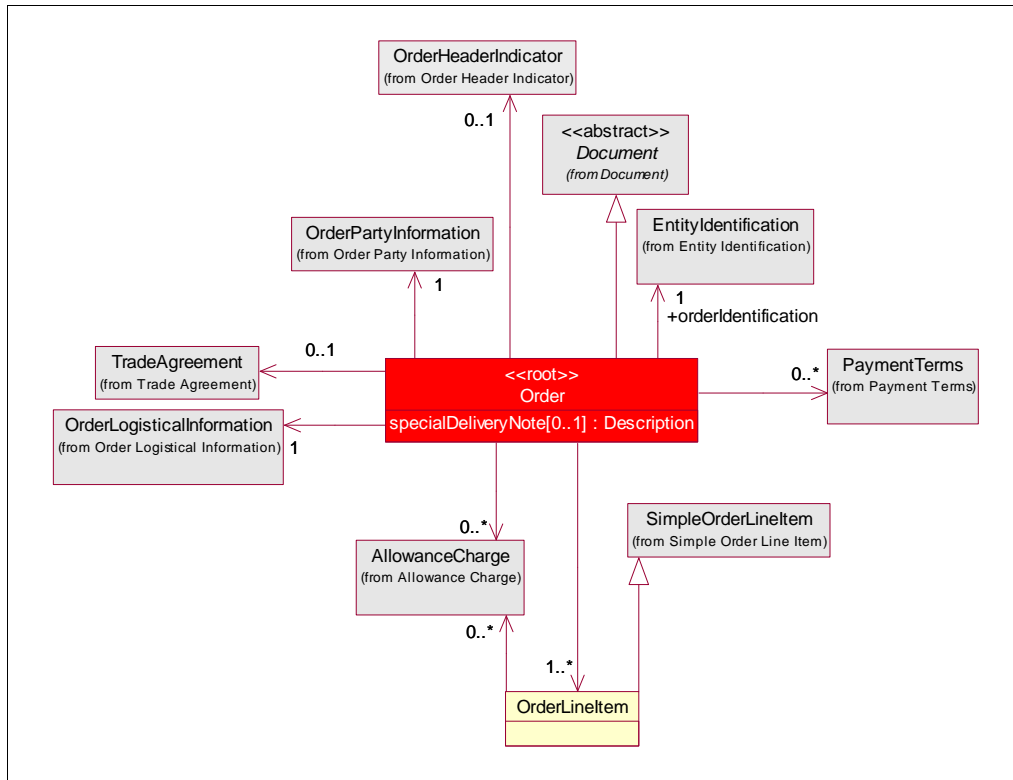
> **Note:** Reference Common Library Business Message (BMS) Release 2.5.0 for all common information.

5.3. Code Lists

> **Note:** Reference Common Library Business Message Release 2.5.0 for all Code Lists

6. Business Document Example

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
4098765000010	Supplier
5412345000037	Ship To

The order identification is PO3352, and the order is placed on the 3rd of November 2006 at 11:00 AM.

The buyer requires an application receipt acknowledgement and the order is not free of excise tax duty.

The buyer (5412345000013) orders the following:

GS1 Global Trade Item Number	Quantity	Order Line Instruction
4098765000027	48	Fragile
4098765000034	24	Perishable

7. Implementation Considerations

Not Applicable

8. Testing

Not Applicable

8.1. Pass / Fail Criteria

NOT APPLICABLE

8.2. Test Data

Attribute	Value
Document	
creationDateTime	2006-11-03 11:00
documentStatus	ORIGINAL
Entity Identification (+orderIdentification)	
uniqueCreatorIdentification	PO3352
PartyIdentification (+contentOwner)	
gLN	5412345000013
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	4098765000010
PartyIdentification (+buyer)	
gLN	5412345000013
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderLogisticalInformation	
ShipToLogistics	
PartyIdentification (+shipTo)	

Attribute	Value
gLN	5412345000037
OrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	1
requestedQuantity	48, EA
additionalOrderLineInstruction	Fragile
TradeItemIdentification	
gTIN	4098765000027
OrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	2
requestedQuantity	24, EA
additionalOrderLineInstruction	Perishable
TradeItemIdentification	
gTIN	4098765000034
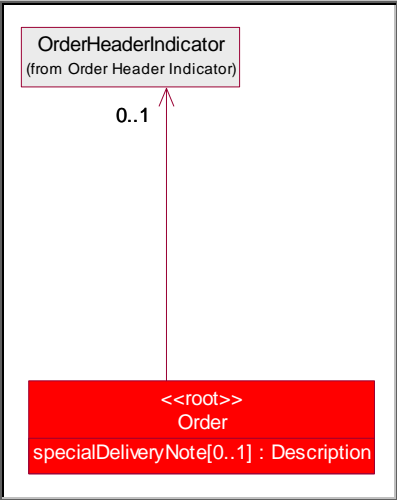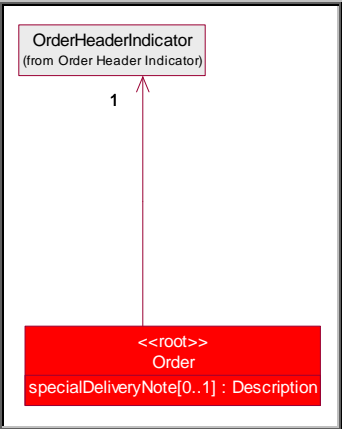
9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number
Document class diagram (Common Library: Common: Components: Document) ■ Added LineItemCount class ■ Contains attribute: number ■ Added LineItemCount class to New Order Class Diagram Order class diagram (Business Process: Order: Order) ■ Added Reference class to New Order class diagram (Roles: contractReferenceNumber, contractReferenceDate) Order class diagram (Business Process: Order: Order) ■ Added TextDescription class to New Order class diagram (SpecialDeliveryNotes) Order Common Class Diagram ■ Added Measurement class relating to SimpleOrderLineItem class ■ Contains UnitOfMeasure attribute	0.1.0	CR 03-000145 CR 03-000167

Change	BSD Version	Associated CR Number

▪ Update list of Order BRG members
▪ Adjustments of the Data Description section and Class Diagrams:
   o Consistency with BRD Order 1.4.4
   o Elimination of Contract reference date
   o Inclusion of unit of measurement within the attributes of Order Line item.
	0.2.0	Not Applicable

Adjustments of the Data Description section and Class Diagrams: use of Contract reference	0.3.0	Not Applicable
▪ Update document to BMS template approved 20041001 ▪ Adjustments on text for clarifications. Section: 1.1.1, ▪ Adjustments on the data descriptions for clarification. Section 1.5.1 ▪ Adjustments on text and diagram agreed after public review comments resolution.	0.4.0	Not Applicable
▪ Copied the GDD platform into the BSD. (Need definitions for all definitions with either None or Not Available). ▪ Replaced Contract Reference class with Trade Agreement class. Trade Agreement class is reused from the MultiShipTo Order work. Note the tradeAgreementReferenceDate attribute is now optional as it was mandatory in the previous version. ▪ Deleted association from Trade Agreement class to Order Party Information class. ▪ Replaced specialDeliveryNotes as an attribute inside the Order class. The modified attribute specialDeliveryNote[0..1]:Description allows for the text and the associated language code. ▪ Updated footer copyright as 2003-2005	0.5.0	Not Applicable
▪ Updated missing definitions in GDD ▪ Included Test Data or Sample Data	0.6.0	Not Applicable
Copied GDD platform output into BSD.	0.7.0	Not Applicable
Upgraded BMS document using BMS Template Version 0.4 and sourced BSD Version 0.7.0	0.8.0	Not Applicable
Upgraded for BMS Release 2.4.0 Class Diagram ▪ Added mandatory (1..1) association from Order to OrderHeaderIndicator ▪ Reference SimpleOrderLineItem which was enhanced for BMS Release 2.3.0 ▪ Referenced OrderLogisticalInformation which was enhanced for BMS Release 2.3.0 GDD Report ▪ Defined OrderLineItem as Order Line Item provides the order detail line item information. Sample Data ▪ Updated with new class diagram additions.	0.9.0	CR 07-000077 CR 07-000098
Peer Review incorporated 9619 Received eCom BRG motion for TSD Development	0.9.1	Not Applicable
Posted for Public Review	0.9.2	Not Applicable

Change	BSD Version	Associated CR Number
Incorporate Public Review Resolution And eBallot Starts on 20070911 and ends on 20070925 Test Data Section 8.2 Updated Boolean Indicator to reflect TRUE or FALSE. OrderHeaderIndicator isApplicationReceiptAcknowledgementRequired TRUE isOrderFreeOfExciseTaxDuty FALSE	0.9.3	Not Applicable
eCom BRG eBallot Approved Updated BMS to Approved	0.9.4	Not Applicable
Order Changed multiplicity from (1..1) TO (0..1) for backward compatibility rules. Order-→OrderHeaderIndicator **BMS Release 2.5.0** **BMS Release 2.4.0** 	0.10.0	8-209

Change	BSD Version	Associated CR Number
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.	0.10.1	Not Applicable
For BMS Release 2.5.0 ■ eBallot Approved, Updated BMS to 'Approved' Status ■ Update version to 'Issue'	Issue 0.10.1	Not Applicable

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