



Business Message Standard (BMS) Multi Shipment Order

BMS Release: 2.5.0, BRG Name: eCom

Issue 0.15.1, 06-Feb-2009



Document Summary

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20-Aug-2008	John RYU, GS1 Global Office	08-000209
14- Jan -2008	Andy KIM, GS1 Australia	08-000007
23- Mar- 2007	Andy KIM, GS1 Australia	07-000128
21- Mar -2007	Stef SPAAN, GS1 Netherlands	07-000098
12- Mar- 2007	Stef SPAAN, GS1 Netherlands	07-000077
18 – Nov -2006	Andy KIM, GS1 Australia	06-000297
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5 – Nov-2006	GS1 on behalf of Upstream	04-000212
13- Jul- 2004	GS1 on behalf of Upstream	04-000137, 04-000138
13- Nov -2003	Vicky CARO, GS1 on behalf of NAMM	03-000167
10 – Oct-2001	GS1	01-000094

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
BRAD For Multi Shipment Order Receipt Response and Excise Tax Free	06 – Jun-2007	BRAD Version 0.0.4
Multi Shipment Order Enhancements	9- Jan-2007	Version 0.0.1
Common Library	Jul- 2007	BMS Release Version 2.4
Multi Ship to Order	20 – Sep-2004	Version 0.3.8A
Multi Ship to Order	10 – May -2004	Version 0.3.9

BRAD Title:	BRAD Date:	BRAD Version
Enhancements Multi Ship to Order Music Industry	10- Oct-2004	Version 0.0.2
Upstream Standards – Demand & Supply Signals	1-Nov-2004	Version 1.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build
08 – Dec-2004	0.0.1	Maria Victoria CARO, Rob TOOLE	Creation of the document	Migration of the BRD Multi Ship to Order approved by Order BRG and ITRG for publication December 2004 Update based on new requirements: Cross Docking Ordering process Enhancements for the music Industry	
09 –Dec-2004	0.0.2	Rob TOOLE	Incorporated changes agreed upon during conference call of 08/12/2004	Modified Order Common (locally) to show NameAndAddress class as option coming off ShipToLogistics class. Its association is called shipToNonCommercial to reflect a “DirectToConsumer” scenario. Also named the shipTo association from ShipToLogistics to PartyIdentification as shipToCommercial, to differentiate a pure commercial relationship. Both associations are choice relationships. Also, in the Multi Ship To Order class diagram, changed role name from buyerName to buyerIdentification.	
13- Dec-2004	0.0.3	Rob TOOLE		Removed note in the changes to common class. Changed shipToCommercial back to shipTo in Order common class. Removed role name from MultiShipToOrder to OrderLogisticalInformation.	
20- Dec-2004	0.0.4	Rob TOOLE		Incorporated common class diagrams, GDD information and code lists.	
27 –Dec-2004	0.0.5	Rob TOOLE		Inserted Party Common class diagram	
02- Jan-2005	0.0.6	Maria Victoria CARO	Finishing the document for public review	Adjustments of GDD definitions according BRADs approved	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build
26- Jan-2005	0.0.7	Maria Victoria CARO, Rob TOOLE	Modifications on the texts and classes according to the final resolutions on the public review	Use of the terms business message and ultimate consignee in the problem statement. Inclusion of the ITRG member (liaison), Format Table of content Wording use case description. Modifications to class diagram	
03- Feb-2005	0.0.8	Maria Victoria CARO, Rob TOOLE	Modifications on the texts and classes according to the final resolutions on the public review	Replace promotional code header and line role by promotional deal role Change the relation class Contact to Order Party Information with the role Order Contact Add the mode attribute to Simple Order Line Item Add Ship to Detail definition Remove data source relation Formatting in the GDD grid Change the Ship to non-Commercial definition Include examples for the different scenarios Include BRG Participants	
15- Feb-2005	0.0.9	Rob TOOLE	Modifications on texts and classes according to BRG comments	Added carrier role to PartyIdentification from SimpleOrderLineItem which puts carrier at the Line level. Mode and requestedQuantity are already at the Line level as attributes of SimpleOrderLineItem. Added mode and carrier roles at the header level from ShipToLogistics and ShipFromLogistics to PartyIdentification. Made corresponding text changes in GDD report	
18 -Feb-2005	0.10.0	John RYU	Updates Advanced to XML for development Definitions needed for GDD section 1.5.2. GDD platform needs to be updated.	Review Change History Section 1.9	Model P4CL: 5774 BSD P4CL: 5777
14- Mar-2005	0.10.1	John RYU	Pasted GDD generated report	Included in section 1.5.2 GDD Report	
14- Mar-2005	0.10.2	John RYU, Maria Victoria CARO	Updated GDD	Updated the missing or "Not Available" definition in section 1.5.2	BSD P4CL: 6034

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22-Apr-2005	0.10.3	John RYU, Maria Victoria CARO	Update section 1.7 Implementation Considerations	Update Section according comments received from TRG	BSD P4CL: 6483
8-Mar-2005	0.11.1	Regenald KRAMER	Incorporating Gap- analysis between Upstream standards Purchase Order and Multi Ship To Order	Updated the class diagrams according to the gap analysis v 0.1.3 08/03/2005	Model P4CL: BSD P4CL:
14-Mar-2005	0.11.2	Regenald KRAMER	Incorporating feedback from Order BRG Teleconference 09/03/2005	Changed +purchaseConditions from mandatory to optional Changed BSD name to "Multi Shipment Order" Changed "MultiShipToOrderLineItem" to "MultiShipmentOrderLineItem" Changed "ShipToDetail" to "ShipmentDetail"	Model P4CL: 6027 BSD P4CL: 6027
24-Mar-2005	0.11.3	Regenald KRAMER	Incorporating feedback from Peer Review (by JR)	See for details 1.9 Summary of Changes under 0.1.3	Model P4CL: 6094 BSD P4CL: 6094
4-Apr-2005	0.11.4	Coen JANSSEN	Peer review comments.	Changed document version numbering. 0.10.0 is the version voted on by ITRG for BMS 2.0, 0.10.x will include comments still to be included in BMS 2.0. Version 0.11.0 is the start for post 2.0 development, such as Upstream Standards. Changed report layouts in paragraphs 1.5.1 and 1.5.2.	
2-May-2005	0.12.0	Coen JANSSEN	Public review comments	Several functional changes, see paragraph 1.9. Changed the format of the examples in paragraph 1.8.2. Changed the text of paragraph 1.2	
9-May-2005	0.12.1	Coen JANSSEN	CR 05-000084	Functional changes, see paragraph 1.9.	
23-May-2005	0.12.2	Coen JANSSEN	Peer review comments	Added BMS Publication to title page.	
30-May-2005	0.12.3	Coen JANSSEN	Peer review comments	Common library changes	
03-Aug-2005	0.12.4	John RYU	Incorporate ITRG Comments	In ODEN replaced Multi Ship To→ Multi Shipment In GDD redefined ShipmentDetails Added Common Library Reference	MDL P4CL 7239

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build
8-Aug-2005	0.12.5	Maria Victoria CARO	Incorporate ITRG Comments on Examples and Test Data	Modification in Examples and Test Data A and D Use correct class names on section 1.7	BSD P4CL: 7290
26-Aug-2005	0.12.6	John RYU	Final ITRG comment resolution concerning currencyExchangeRate	Updated class diagram on section 1.7 and GDD. Detail changes depicted in section 1.8	MDL P4CL: 7363 BSD P4CL: 7366
12- Mar-2007	0.13.0	John RYU	Incorporate BRAD Multi Shipment Order Enhancements Version 0.0.1 Migrated BMS Version 12.6 to updated BMS Template Version 1.3	Discussion on 20070306 eCom BRG Teleconference to receive Motion for TSD development. CR 06-282/3/5 and CR 06-000297	MDL P4CL: 9016 BSD P4CL: 9062
15- Mar-2007	0.13.1	John RYU	Incorporated Peer Review eCom BRG motion for TSD Development	Noted in Summary of Changes	BSD P4CL: 9080
23- Mar-2007	0.13.2	John RYU	Incorporate CR # 07-000128 Incorporated Peer Review	Noted in Summary of Changes	MDL P4CL: 9102 BSD P4CL: 9129
3- Apr-2007	0.13.3	John RYU	eCom BRG motioned for TSD Development	Noted in Summary of Changes	BSD P4CL: 9159
12-Apr-2007	0.13.4	John RYU	Posting for Public Review	Updated to BMS Template Version 1.8	MDL P4CL: 9206 BSD P4CL: 9219
3- May-2007	0.13.5	John RYU	Update based on public review	Noted in summary of changes	MDL P4CL: 9289 BSD P4CL: 9290
25- May-2007	0.13.6	John RYU	eCom BRG eBallot Approved	Updated BMS to approved	BSD P4cl: 9460
16-Jul-2007	0.14.0	John RYU	Upgrade for BMS Version 2.4 Release Submitted for Peer Review	Noted in summary of changes	MDL P4CL: 9608 BSD P4CL: 9623
18-Jul-2007	0.14.1	John RYU	Incorporated peer review eCom BRG Motion for TSD Development	Noted in summary of changes	BSD P4CL: 9663

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build
24-Aug-2007	0.14.2	John RYU	Part of TSD Development Packet	Posted for Public Review	BSD P4CL: 9804
11-Sep-2007	0.14.3	John RYU	Incorporate Public Review Resolution Comments. eBallot begins 20070911 and ends on 20070925	Noted in Summary of Changes	BSD P4CL: 9935
25-Sep-2007	0.14.4	John RYU	eCom BRG eBallot Approved	Updated BMS to approved	BSD P4CL: 9997
24-Oct-2008	0.15.0	John RYU	BMS Release 2.5.0	Noted in Summary of Changes	MDL 10644 BSD 10645
01-Dec -2008	0.15.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	NOT APPLICABLE
06-Feb-2009	Issue 0.15.1	Lisa Herrick	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	NOT APPLICABLE

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1. Business Domain View

1.1. Problem Statement / Business Need

The Multi Shipment Order provides the ability to order different quantities of trade items/services originating from multiple locations of the seller, shipped to multiple locations of the buyer, using one business message.

The multi-shipment order process initiated by the buyer includes the capability to:

- Request shipment from multiple locations
- Request shipment to multiple locations which can include ultimate consignees or inventory locations
- Vary the quantity of the trade item/service by each ship to location
- Vary the quantities to the ship to locations per the order line item
- Specify dates per each ship to location
- Specify dates per the order line item

1.2. Objective

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

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 Number	Reference Name	Description
Ref 1	BRD For Multi Ship to Order	Version 0.3.8 A
Ref 2	BRD For Multi Ship to Order	Version 0.3.9
Ref 3	BRAD for Enhancements Multi-Ship to Order Music Industry	
Ref 4	BRAD Upstream Standards – Demand & Supply Signals	Version 0.1.0
Ref 5	ITRG Comment Resolution Sheet	
Ref 6	BRAD Multi Shipment Order Enhancements	Version 0.0.1
Ref 7	BMS Common Library	BMS Release Version 2.5.0
Ref 8	BRAD For Multi Shipment Order Receipt Response and Excise Tax Free	BRAD Version 0.0.4

1.5. Acknowledgements

1.5.1. BRG Work Group

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1.5.2. Design Team Members

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XML Technical Designer	Dipan Anarkat	GS1 Global Office
EANCOM Technical Designer	Not Applicable	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	All
Official Constraints	None

3. Additional Technical Requirements Analysis

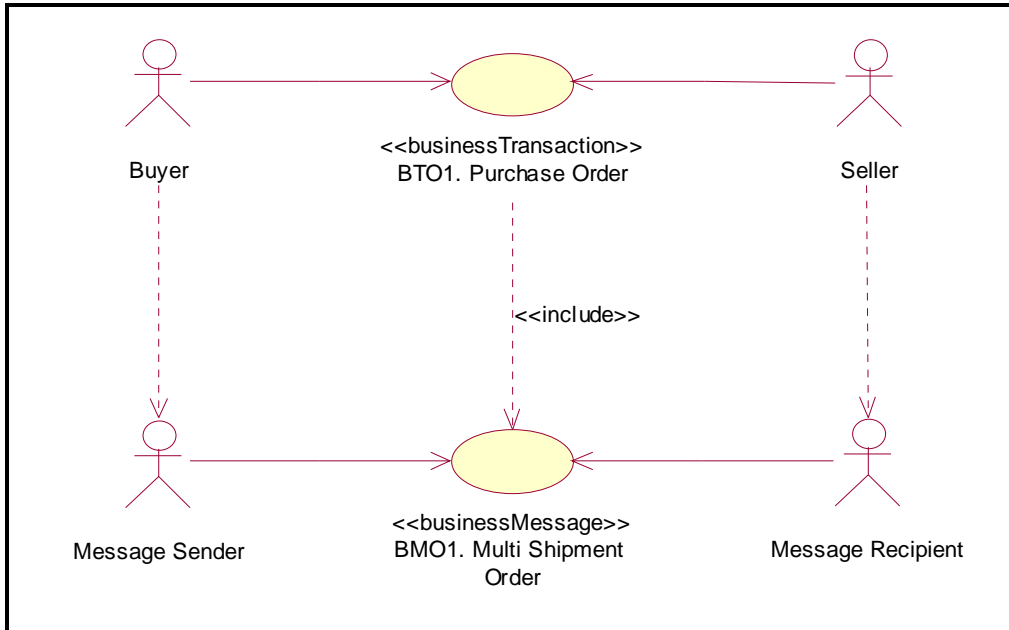
3.1. Technical Requirements (optional)

Not Applicable

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Figure 4-1 Multi Shipment Order Use Case Diagram



4.2. Use Case Description

Use Case ID	BT01
Use Case Name	Multi Shipment Purchase Order
Use Case Description	This use case provides the ability to order different quantities of trade items/ services originating from multiple locations of the seller shipped to multiple locations of the buyer using one business message.
Actors (Goal)	Buyer: To send the Multi Shipment Purchase Order Seller: To receive the Multi Shipment Purchase Order
Performance Goals	None
Preconditions	(Multi Shipment) Purchase Order: PREPARED The Buyer and Seller have aligned Party and Item information. The Buyer and Seller have established their trading partner agreements The trading partners (Buyer and Seller) must exchange and have aligned their basic business data such as trading partner names, addresses, locations (Party Information), Item information and Price information. The Buyer and Seller have agreed that each can produce and process a purchase order with multiple ship-to locations with varied quantities and dates of trade items/services per ship-to location. The Buyer and Seller have agreed on whether a Receipt Acknowledgement or Order Confirmation messages are required, as an option based on the pre-determined trading partner agreements. Purchase conditions have been agreed upon.

Post conditions	Multi Shipment Purchase Order: COMMUNICATED The Seller has received the Multi Shipment Order sent by the Buyer.						
Scenario	Begins when... Not Applicable Continues with... <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> </tr> </tbody> </table> Ends when...	Step #	Actor	Activity Step	1		
Step #	Actor	Activity Step					
1							
Alternative Scenario	<table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1		
Step #	Actor	Activity Step					
1							
Related Requirements	No Related Requirement						
Related Rules	No Business Rule						

4.3. Business Transaction Activity Diagram(s)

Not Applicable

4.4. Business Transaction Sequence Diagram(s)

Not Applicable

5. Information Model (Including GDD Report)

5.1. GDD Report

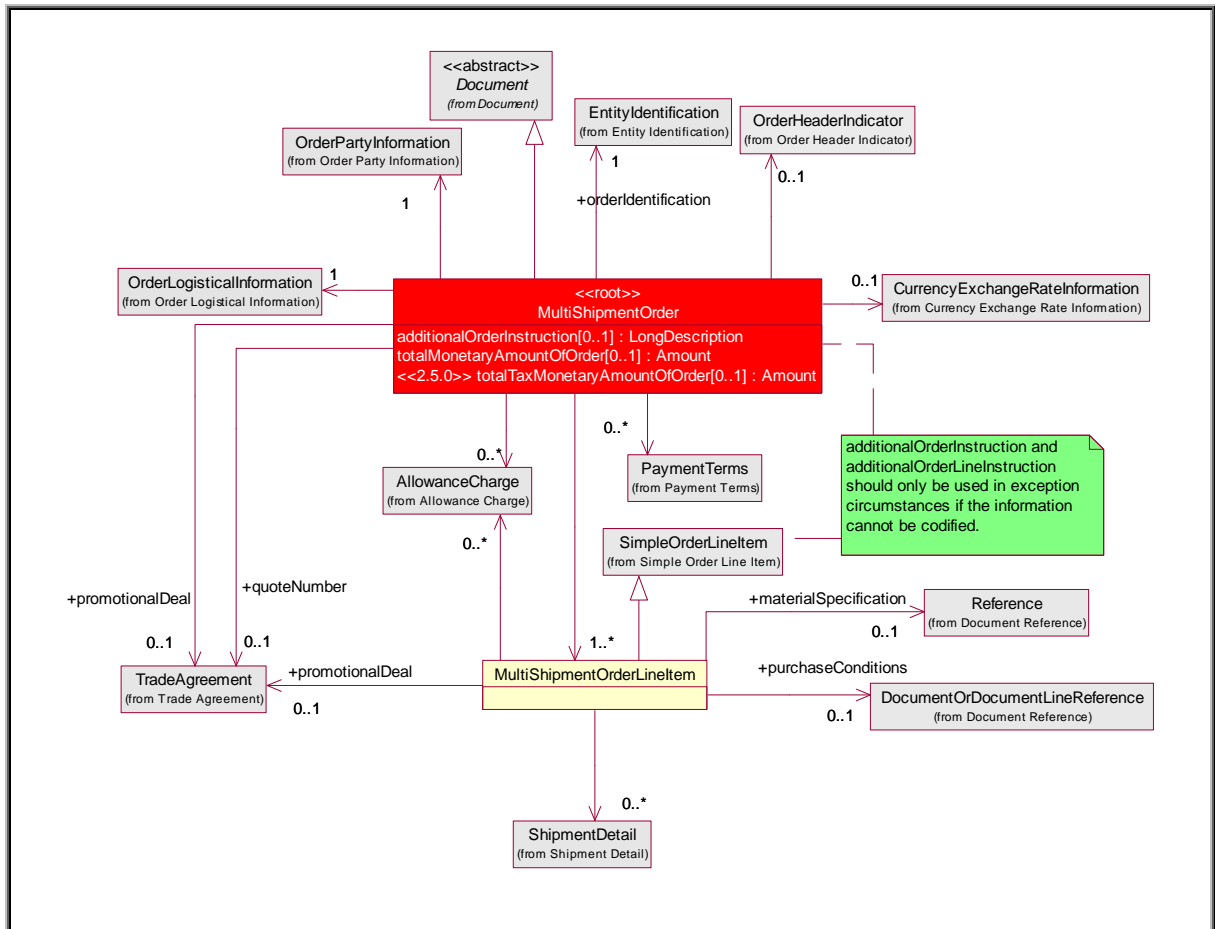
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
MultiShipmentOrder				Multi Shipment_ Purchase Order. Details	The Multi Shipment Order provides the ability for a buyer to order variable quantities of trade items/services shipped from and to multiple locations using one business message				
	additionalOrderInstruction			Multi Shipment_ Purchase Order.Additional Order Instruction.{1..1000}_ Text	Additional order instruction captures information that has not been previously synchronised and is ad-hoc in nature. This field should only be used in exception circumstances if the information cannot be codified. Examples Purchase Order Header: Please mark to 'Attention of Special Orders'Please shrink wrap Please mark 'Customer Special Order' and 'Paid'	0..1	Language. Identifier Text. Content	BR2: BRAD Multi Shipment Order Enhancements Version 0.0.1	
	totalMonetaryAmountOfOrder			Multi Shipment_ Purchase Order.Total Monetary Amount Of Order.Amount	The total monetary amount of the Purchase Order excluding all Taxes. This field is needed to allow effective purchase order and invoice total value reconciliation. It is a business process in Australian Hardware industry for the receiver of the invoice to initially check the total value of the invoice vs. the purchase order originally placed. In a retail store environment, manual calculation of purchase order total value is not feasible for store conducting this reconciliation.The presence of this field will also enable matching of the value of this purchase order with subsequent messages including the invoice by both the sender and the receiver.	0..1	Amount. Content Amount Currency. Code List Version. Identifier	BR4: BRAD Multi Shipment Order Enhancements Version 0.0.1	
	totalTaxMonetaryAmountOfOrder			Multi Shipment_ Purchase Order.Total Tax Monetary Amount Of Order.Amount	Provides the total tax amount of the order.This would appear at the header level of the message.	0..1	Amount. Content Amount	CR 8-7	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
							Currency. Code List Version. Identifier		
			AllowanceCharge	Multi Shipment_ Purchase Order. Association. Allowance Charge	Contains the information related with the allowance charge in the Multi Shipment Order.	0..*			
			CurrencyExchangeRateInformation	Multi Shipment_ Purchase Order. Association. Currency Exchange Rate Information	Rate at which one currency may be converted into another. Generally, one unit of the home currency is expressed in terms of another currency. For example, a North American bank may quote the exchange rate between the dollar and the Euro as the number of dollars needed to buy one Euro.	0..1			
			Document	Multi Shipment_ Purchase Order. Inheritance. Electronic_ Document	Contains the information related with the document in the Multi Shipment Order.	1..1			
		orderIdentification	EntityIdentification	Multi Shipment_ Purchase Order. Order Identification_ Association. Entity Identification	The unique identification of the Order	1..1			
			MultiShipmentOrderLineItem	Multi Shipment_ Purchase Order. Association. Multi Shipment_ Purchase Order Line	Specify the information related to each line item. Multi Shipment Order will contain one or more line items.	1..*			
			OrderHeaderIndicator	Multi Shipment_ Purchase Order. Association. Order Header Indicator	Provides the order header indicator information.	0..1		CR 8-209	
			OrderLogisticalInformation	Multi Shipment_ Purchase Order. Association. Order_ Logistical Information Group	Contains the information related with the dates and destinations of the goods or services.	1..1			
			OrderPartyInformation	Multi Shipment_ Purchase Order. Association. Order_ Party Group	Contains the information related with the parties involved in the order process.	1..1			
			PaymentTerms	Multi Shipment_ Purchase Order. Association. Payment Terms	Contains the information related with the parties involved in the order process.	0..*			
		promotionalDeal	TradeAgreement	Multi Shipment_ Purchase Order. Promotional Deal_	Number assigned by a vendor to a special promotion activity.	0..1			

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
				Association. Trade Agreement					
		quoteNumber	TradeAgreement	Multi Shipment_ Purchase Order. Quote Number. Trade Agreement	Quote Number is defined as the reference number assigned by the seller to a quote. This price quote number applies to the entire order and not at the individual line item level. A quote number identifies a one off negotiation on a particular order between buyer and supplier; however, it is not essentially a promotional deal, but rather a one off quotation being provided for the goods either based on price or manufactured to certain specifications.	0..1		BR1: BRAD Multi Shipment Order Enhancements Version 0.0.1	
MultiShipmentOrderLineItem				Multi Shipment_ Purchase Order Line. Details	Specify the information related to each line item. Each Multi Ship to Order will contain one or more line items.				
			AllowanceCharge	Multi Shipment_ Purchase Order Line. Association. Allowance Charge	Contains the information related with the allowance charge in the detail order level.	0..*			
		purchaseConditions	DocumentOrDocumentLineReference	Multi Shipment_ Purchase Order Line. Purchase Conditions_ Association. Document Or Document Line Reference	A reference to the purchase conditions. The reference is associated with specific items in the order.	0..1			
		materialSpecification	Reference	Multi Shipment_ Purchase Order Line. Material Specification_ Association. Reference	A reference to a material specification. The reference is associated with specific items in the order.	0..1			
			ShipmentDetail	Multi Shipment_ Purchase Order Line. Association. Multi Shipment_ Purchase Order Sub Line	Allows the identification of various shipping details by line item.	0..*			
			SimpleOrderLineItem	Multi Shipment_ Purchase Order Line. Inheritance. Simple_ Purchase Order Line	Specify the information related to each line item within the order.	1..1			
		promotionalDeal	TradeAgreement	Multi Shipment_ Purchase Order Line. Promotional Deal_ Association. Trade Agreement	A reference to a trade agreement related to a promotional deal. The reference is associated with specific items in the order.	0..1			


5.2. Class Diagrams

Figure 5-1 Class Diagram: Multi Shipment 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 Examples

6.1. Example A

The following is an example of the use of the Multi Shipment Order Message.

- The buyer identified by the GS1 Global Location Number **7594567000014** places an order to the supplier identified by the GS1 Global Location Number **8431472300015**.
- The order identification is **PO0222** and is placed on **21st of July 2004** at **10:00 AM**.
- Order Header Indicator.
 - Application Receipt Acknowledgement is required
 - Order is not free of excise tax duty.
- The buyer and supplier had prior discussions regarding the requirements for the order and a quote reference number to be used as references. In this case it relates to specific pricing and manufacturing requirements as it is not a standard stock item, the quote number is Q3391.
- The buyer is also requesting for line item **08431472300053** that they need to be pre-assembled and a note to this effect is included in the free text at line item level.
- The buyer is also requesting that everything ordered needs to be shrink wrapped to protect it from the elements and a note to this effect is included in the free text field at header level.
- The total monetary amount of the order as calculated by the Buyer is thought to be **\$5500.50** (excluding all taxes).
- The main distribution centre is identified by the GS1 Global Location Number **7594567000090** where the goods should be shipped to and delivered on **23rd July 2004** (if no other specification is given).

The buyer orders the following:

GS1Global Trade Item Number	Quantity	Location
08431472300053	25	7594567000090
08431472300053	14	7594567000083

6.2. Example B

The following is an example of the use of the Multi Shipment Order Message for Cross Docking Order with multiple cross docking destinations and multiple final destinations.

- The buyer identified by the GS1 Global Location Number **7704567000017** places an order to the supplier identified by the GS1 Global Location Number **8881472300018**.
- The order identification is PO0341 and is placed on **4th of March 2004** at **10:00 AM**.
- Order Header Indicator.
 - Application Receipt Acknowledgement is required
 - Order is not free of excise tax duty.
- The main distribution centre is identified by the GS1 Global Location Number **7704567000024** where the goods should be shipped to and delivered on **15th March 2004** (if no other specification is given).

The buyer orders the following:

GS1 Global Trade Item Number	Quantity	Warehouse	Store	Delivery Date
08881472300049	8	-	-	-
08881472300025	15	7704567000031	7704567000063	2004-03-12 (Store)
08881472300032	10	7704567000031	7704567000079	2004-03-13 (Store)

6.3. Example C

The following is an example of the use of the Multi Shipment Order Message with additional information used within the music industry.

- The buyer identified by the GS1 Global Location Number **0079452000319** places an order to the supplier identified by the GS1 Global Location Number **0074562000457**. The person responsible for issuing the order is Joe Smith.
- The order identification is PO00759, is placed on **3rd February 2005** at **10:00 AM** makes reference to the promotional deal number **AHK00765**.
- Order Header Indicator.
 - Application Receipt Acknowledgement is required
 - Order is not free of excise tax duty.
- The goods have to be shipped directly to the consumer by a carrier identified by the GS1 Global Location Number **0078245000635** by air (**4th February 2005**).

The buyer orders the following:

GS1 Global Trade Item Number	Quantity	Consumer information	Delivery Date
00074562000525	2	Carol Johnson 1900 NW 150 Ave Pembroke Pines FL 33028 US Telephone Number: 123.456.7890	2005-02-04

6.4. Example D

The following is an example of the use of the Multi Shipment Order Message between a manufacturer (Buyer) and his material supplier (Seller) (so the Upstream Supply Chain) with one ship to location and multiple inventory locations at this ship to location.

- The buyer, identified by the GS1 Global Location Number **8713145000034** places an order to the supplier is identified by the GS1 Global Location Number **8612423005669**.
- The order identification is **PO-FK23491** and is placed on **9th March 2005** at **10:30 AM**.
- Order Header Indicator.
 - Application Receipt Acknowledgement is required
 - Order is not free of excise tax duty.
- The reference to the purchase conditions is done by the number **CT2005-Q1**. The order contact is Mr. Order the goods requirements planner involved is Mr. Planner.
- The ship-to address which is the plant of the manufacturer is identified by the GS1 Global Location Number **8712423005778** where the 2 items should be delivered the **15th March 2004** at 2 specific inventory locations for storage. One of the items is specifically shipped from the materials supplier site **8612423005612** (ship-from).

The buyer orders the following:

Item GTIN	Ship From GLN	Quantity	Plant GLN	Inventory Location GLN
05411100203461	8612423005612	350 KGM	8712423005778	8712423000339
01234550123456		210 KGM	8712423005778	8712423000322

7. Implementation Considerations

In the business case scenario where there is the ship to location that is present at the order line item level (use of Shipment Detail class), it overrides the ship to location specified for the entire Multi Shipment Order. Once it is used, it is recommended, but not mandatory, to identify ship to locations per the total quantity ordered per line item. In that scenario, the quantities in the shipment detail level should equal the total order quantity at the line item level (See section 6, [Business Document Examples](#))

Depending on the business case scenario (Upstream or Downstream), the identification of Inventory location or Ultimate Consignee are mutually exclusive.

In the business scenario where the ship to location and the inventory location roles are used, it means that the goods are going to be delivered to the ship to location and the goods will be stored at the inventory location.

8. Testing

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

8.2.1. Example A

MultiShipmentOrder	
additionalOrderInstruction	Please Shrink Wrap Order, ENG
totalMonetaryAmountOfOrder	5500.50, USD
<i>Document</i>	
creationDateTime	2004-07-21T10:00:00
documentStatus	ORIGINAL
EntityIdentification (+orderIdentification)	
uniqueCreatorIdentification	PO0222
PartyIdentification (+contentOwner)	
gLN	7594567000014
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	8431472300015
PartyIdentification (+buyer)	
gLN	7594567000014
TradeAgreement (+quoteNumber)	
tradeAgreementReferenceNumber	Q3391
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderLogisticalInformation	
ShipToLogistics	
PartyIdentification (+shipTo)	
gLN	7594567000090
OrderLogisticalDateGroup	
LogisticalDate (+requestedDeliveryDate)	
date	2004-07-23
MultiShipmentOrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	1
requestedQuantity	39, EA
additionalOrderLineInstruction	Pre-Assembly Required, ENG
TradeItemIdentification	
gTIN	08431472300053
ShipmentDetail	
requestedQuantity	25, EA
PartyIdentification (+shipTo)	
gLN	7594567000090
ShipmentDetail	
requestedQuantity	14, EA
PartyIdentification (+shipTo)	
gLN	7594567000083

8.2.2. Example B

MultiShipmentOrder	
<i>Document</i>	
creationDateTime	2004-03-04 10:00
documentStatus	ORIGINAL
Entity Identification (+orderIdentification)	
uniqueCreatorIdentification	PO0341
PartyIdentification (+contentOwner)	
gLN	7704567000017
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	8881472300018
PartyIdentification (+buyer)	
gLN	7704567000017
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderLogisticalInformation	
ShipToLogistics	
PartyIdentification (+shipTo)	
gLN	7704567000024
OrderLogisticalDateGroup	
LogisticalDate (+requestedDeliveryDate)	
date	2004-03-15
MultiShipmentOrderLineItem	
SimpleOrderLineItem	
<i>LineItem</i>	
lineItemNumber	1
requestedQuantity	8, EA
TradeItemIdentification	
gTIN	08881472300049
MultiShipmentOrderLineItem	
SimpleOrderLineItem	
<i>LineItem</i>	
lineItemNumber	2
requestedQuantity	15, EA
TradeItemIdentification	
gTIN	08881472300025
ShipmentDetail	
requestedQuantity	15
PartyIdentification (+shipTo)	
gLN	7704567000031
PartyIdentification (+ultimateConsignee)	
gLN	7704567000063
OrderLogisticalDateGroup	
LogisticalDate (+requestedDeliveryDateAtUltimateConsignee)	
Date	2004-03-12

MultiShipmentOrderLineItem	
SimpleOrderLineItem	
<i>LineItem</i>	
lineItemNumber	3
requestedQuantity	10, EA
TradeItemIdentification	
gTIN	08881472300032
ShipmentDetail	
requestedQuantity	10, EA
PartyIdentification (+shipTo)	
gLN	7704567000031
PartyIdentification (+ultimateConsignee)	
gLN	7704567000079
OrderLogisticalDateGroup	
LogisticalDate (+requestedDeliveryDateAtUltimateConsignee)	
Date	2004-03-13

8.2.3. Example C

MultiShipmentOrder	
<i>Document</i>	
creationDateTime	2005-02-03 10:00
documentStatus	ORIGINAL
EntityIdentification (+orderIdentification)	
uniqueCreatorIdentification	PO00759
PartyIdentification (+contentOwner)	
gLN	0079452000319
TradeAgreement (+promotionalDeal)	
tradeAgreementReferenceNumber	AHK00765
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	0074562000457
PartyIdentification (+buyer)	
gLN	0079452000319
Contact (+orderContact)	
MultiDescription (+personOrDepartmentName)	
description (language, text)	Joe Smith, ENG
OrderLogisticalInformation	
ShipToLogistics	
ShipToNonCommercial	
NameAndAddress (+ShipToNonCommercial)	
name	Carol Johnson
streetAddressOne	1900 NW 150 Ave
city	Pembroke Pines

state	FL
postalCode	33028
countryISOCODE	US
Contact	
MultiDescription (+personOrDepartmentName)	Carol Johnson, ENG
CommunicationChannel	
communicationNumber	123.456.7890
communicationChannelCode	TELEPHONE
ShipmentTransportationInformation	
transportationMethodType	AIR
PartyIdentification (+carrier)	
gLN	0078245000635
OrderLogisticalDateGroup	
LogisticalDate (+requestedDeliveryDate)	
date	2005-02-04
MultiShipmentOrderLineItem	
SimpleOrderLineItem	
LineItem	
lineItemNumber	1
requestedQuantity	2, EA
TradeItemIdentification	
gTIN	00074562000525

8.2.4. Example D

MultiShipmentOrder	
additionalOrderInstruction	Please Shrink Wrap Order, ENG
totalMonetaryAmountOfOrder	10000.50, USD
Document	
creationDateTime	2004-07-21T10:00:00
documentStatus	REPLACE
EntityIdentification (+orderIdentification)	
uniqueCreatorIdentification	PO0222
PartyIdentification (+contentOwner)	
gLN	7594567000014
OrderHeaderIndicator	
isApplicationReceiptAcknowledgementRequired	TRUE
isOrderFreeOfExciseTaxDuty	FALSE
OrderPartyInformation	
PartyIdentification (+seller)	
gLN	8431472300015
PartyIdentification (+buyer)	
gLN	7594567000014
TradeAgreement (+quoteNumber)	
tradeAgreementReferenceNumber	Q3391
OrderLogisticalInformation	
ShipToLogistics	
PartyIdentification (+shipTo)	

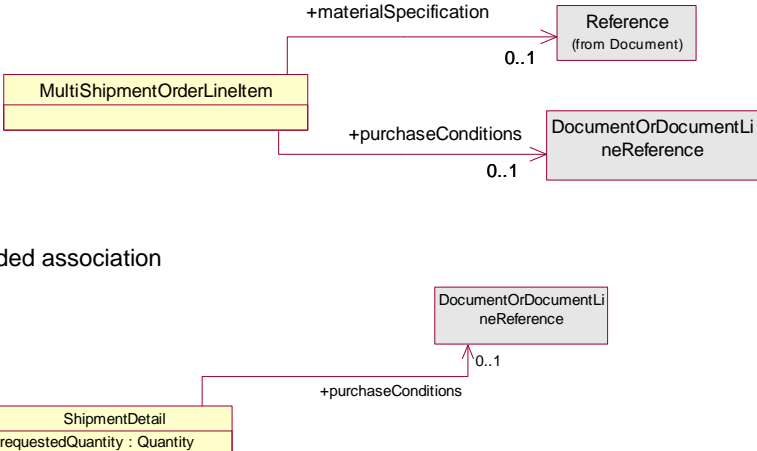
	gLN	7594567000090
OrderLogisticalDateGroup		
LogisticalDate (+requestedDeliveryDate)		
	date	2004-07-23
MultiShipmentOrderLineItem		
SimpleOrderLineItem		
LineItem		
	lineItemNumber	1
	requestedQuantity	39, EA
	lineItemActionCode	Not Amended
	additionalOrderLineInstruction	Pre-Assembly Required, ENG
TradeItemIdentification		
	gTIN	08431472300053
ShipmentDetail		
	requestedQuantity	25, EA
PartyIdentification (+shipTo)		
	gLN	7594567000090
ShipmentDetail		
	requestedQuantity	14, EA
PartyIdentification (+shipTo)		
	gLN	7594567000083

9. Appendices

Not Applicable

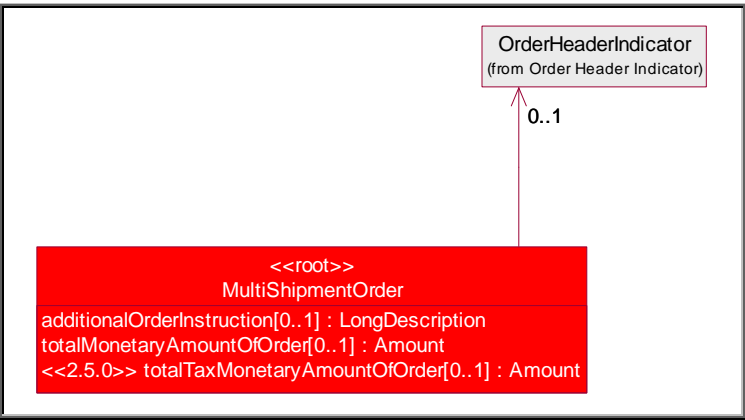
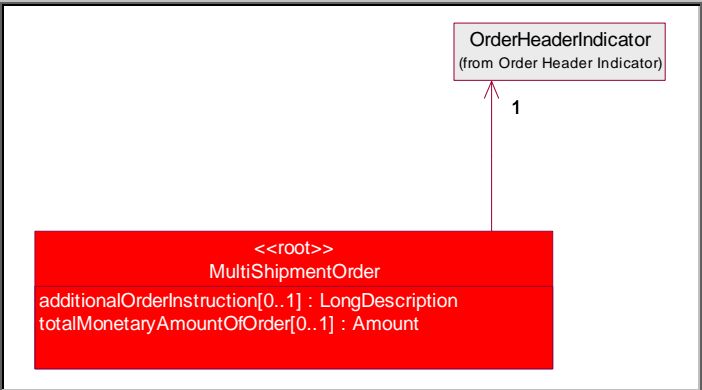
10. Summary of Changes

Change	BSD Version	Associated CR Number
Removed external class diagrams. External class diagrams should be referenced in the Common Library BSD. Updated MultiShipToOrder class diagram Added an optional association from ShipToDetail to TransportationMode. Added an optional association from ShipToLogistics to TransportationMode. Added an optional association from SimpleOrderLineItem to TransportationMode. Added optional association from TransportationMode to PartyIdentification with role of +carrier Still need definitions in GDD and updates needed to GDD Platform to generated the Official Dictionary Entry Name. Updated footer	0.10.0	
GDD platform has been updated, and the output copied in section 1.5.2 GDD Report. Vicky and Order BRG need to validate the definitions and provide definitions for "Not Available".	0.10.1	
MVC and JR updated the missing definition in 1.5.2 GDD report	0.10.2	

Change	BSD Version	Associated CR Number
MVC and JR updated section 1.7 according to comments received on ITRG review	0.10.3	
Updated GTIN data in examples and test data to 14 digits (leading zero's) Various errata in examples and test data Added example D in examples and test data Changed "Multi Ship To Order" to "Multi Shipment Order" Incorporated Upstream solution in section 1.1 "Business Domain View" and section 1.4 "Business Transaction View" Added Upstream requirements to table in section 1.5.1 Added Upstream elements to GDD report in section 1.5.2 and class diagram in section 1.5.3: +materialSpecification [0..1] +purchaseConditions [0..1] +shipFrom [0..1] +inventoryLocation [0..1] Quantity (Datatype)	0.11.0	04-000212
BSD Template version 1.1 Target BMS Publication Version: Post Version 2.0.1 Table of Contents updated GUSI is spelled out System Capabilities: All Added text "No Technical Requirements" Removed "for" in Use Case Description (typo) (M) is removed from Class Diagram (in TransportationMode) +inventoryLocation association is re-drawn Removed "List" from Document Status (in examples) Added MoU (KGM) in example D	0.11.1	04-000212
Changed some associations from MultiShipmentOrderLineItem → TradeAgreement: +purchaseConditions now associates to the DocumentOrDocumentLineReference class. +materialSpecification now relates to the Reference class.  <pre> classDiagram class MultiShipmentOrderLineItem class Reference["Reference (from Document)"] class DocumentOrDocumentLineReference class ShipmentDetail["ShipmentDetail\nrequestedQuantity : Quantity"] MultiShipmentOrderLineItem --> Reference : +materialSpecification 0..1 MultiShipmentOrderLineItem --> DocumentOrDocumentLineReference : +purchaseConditions 0..1 ShipmentDetail --> DocumentOrDocumentLineReference : +purchaseConditions 0..1 </pre> Added association	0.12.0	04-000212

Change	BSD Version	Associated CR Number
Changed name of TransportationMode class into TransportationInformation. The structure of the class also has changed (see the class diagram in the common library): Added attributes serviceLevelCode and shipmentSpecialHandlingCode Changed cardinality of association to PartyIdentification (+carrier) from 1..1 into 0..1.	0.12.1	05-000084
Changed name of TransportationInformation class into ShipmentTransportationInformation.	0.12.3	05-000084
In ODEN replaced Multi Ship To→ Multi Shipment In GDD redefined ShipmentDetails Added currencyExchangeRate[0..1]:ISO4217_Code in MultiShipmentOrder class and the GDD. Changed file location to match common library ShipmentTransportationInformation (from ShipmentTransportationInformation).	0.12.4	
Modification in Examples and Test Data A and D Use correct class names on section 1.7	0.12.5	05-00084
Removed currencyExchangeRate[0..1] : ISO4217_Code in MultiShipmentOrder class. and replaced with association From: MultiShipmentOrder TO: [0..1] CurrencyExchangeRateInformation Added into common library BSD P4CL: 7365 Doc Version: 0.2.9 CurrencyExchangeRateInformation currencyConversionFrom : ISO4217_Code currencyConversionTo : ISO4217_Code exchangeRate : Float	0.12.6	Based on ITRG Comment Resolution Feedback.
Updated 1.6 Business Document Example A and C Updated 1.8.2 Test Data Example A and C Changed to class diagram MultiShipmentOrder Update Changes from Multi Shipment Order Version 2.1.1 MultiShipmentOrder Add Optional(0..1) QuoteNumber association to TradeAgreement Add attribute additionalOrderInstruction[0..1] : Description Add attribute totalMonetaryAmountOfOrder[0..1] : MonetaryAmount Common Library Update SimpleOrderLineItem Add attribute additionalOrderLineInstruction[0..1] : Description Order Logistical Information ShipToNonCommercial Create ShipToNonCommercial class with mandatory(1..1) association to NameAndAdres and Optional (0..1)association to Contact.	0.13.0	06-000282 06-000283 06-000285 06-000297
Inserted Order Logistical Information Updated GDD inventoryLocation defined as Identifies the location of merchandise or stock on hand.	0.13.1	Based on Peer Review

Change	BSD Version	Associated CR Number
Common Library Update SimpleOrderLineItem Added attribute lineItemActionCode[0..1] : OrderLineItemActionCodeList Code List Added OrderLineItemActionCodeList	0.13.2	CR 07-000128
Updated Example D documentStatus has been changed to REPLACE	0.13.3	
Updated DataType totalMonetaryAmountOfOrder[0..1] : MonetaryAmount→Amount Based on QA checks. Updated Document to BMS template Version 1.8	0.13.4	
Based on Public Review Updated Data type from Description--→LongDescription MultiShipmentOrder additionalOrderInstruction[0..1] : LongDescription SimpleOrderLineItem additionalOrderLineInstruction[0..1] : LongDescription	0.13.5	Based on Public Review 200704
Upgraded for BMS Release 2.4.0 Class Diagram <ul style="list-style-type: none"> ■ Added mandatory (1..1) association from MultiShipmentOrder to OrderHeaderIndicator Common Library Addition <ul style="list-style-type: none"> ■ OrderHeaderIndicator added attributes ■ isApplicationReceiptAcknowledgementRequired ■ isOrderFreeOfExciseTaxDuty GDD Report <ul style="list-style-type: none"> ■ Added mandatory (1..1) association from MultiShipmentOrder to OrderHeaderIndicator Sample Data <ul style="list-style-type: none"> ■ Updated with new class diagram additions 	0.14.0	<ul style="list-style-type: none"> ■ CR 07-000077 ■ CR07-000098
Updated based on peer review. 9639 Referenced change requests in Objective	0.14.1	Not Applicable
Updated File name and included into TSD for Public Review	0.14.2	Not Applicable

Change	BSD Version	Associated CR Number
Updated test data based on Public Review Comment Resolution. OrderHeaderIndicator isApplicationReceiptAcknowledgementRequired TRUE isOrderFreeOfExciseTaxDuty FALSE	0.14.3	Not Applicable
eCom BRG eBallot Approval Updated BMS to Approved	0.14.4	Not Applicable
MultiShipmentOrder Added attribute (CR 8-7) totalTaxMonetaryAmountOfOrder[0..1] : Amount (8-209) Changed multiplicity from (1..1) TO (0..1) for backward compatibility rules. MultiShipmentOrder-→OrderHeaderIndicator BMS Release 2.5.0  <p>The diagram for BMS Release 2.5.0 shows a red box representing the root element <code><<root>> MultiShipmentOrder</code>. Inside this box, the following attributes are listed: <code>additionalOrderInstruction[0..1] : LongDescription</code>, <code>totalMonetaryAmountOfOrder[0..1] : Amount</code>, and <code><<2.5.0>> totalTaxMonetaryAmountOfOrder[0..1] : Amount</code>. An arrow points from the top of this red box to a separate box labeled <code>OrderHeaderIndicator (from Order Header Indicator)</code> with a multiplicity of <code>0..1</code>.</p> BMS Release 2.4.0  <p>The diagram for BMS Release 2.4.0 shows a red box representing the root element <code><<root>> MultiShipmentOrder</code>. Inside this box, the following attributes are listed: <code>additionalOrderInstruction[0..1] : LongDescription</code> and <code>totalMonetaryAmountOfOrder[0..1] : Amount</code>. An arrow points from the top of this red box to a separate box labeled <code>OrderHeaderIndicator (from Order Header Indicator)</code> with a multiplicity of <code>1</code>.</p>	0.15.0	8-7 8-209

Change	BSD Version	Associated CR Number
For BMS Release 2.5.0 <ul style="list-style-type: none">• 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.	0.15.1	Not Applicable
For BMS Release 2.5.0 <ul style="list-style-type: none">• eBallot Approved, Updated BMS to 'Approved' Status• Update version to 'Issue'	Issue 0.15.1	Not Applicable