



Business Message Standard (BMS) Multi Shipment Order

BMS Release: 2.5.0, BRG Name: eCom

Issue 0.15.1, 06-Feb-2009



Document Summary

| Document Item | Current Value |
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Change Request Reference

| Date of CR Submission to GSMP: | CR Submitter(s): | Refer to Change Request (CR) Number(s): |
|--------------------------------|-----------------------------------|---|
| 20-Aug-2008 | John RYU, GS1 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 |
| 16 – Nov-2006 | Andy KIM, GS1 Australia | 06-000285 |
| 15 – Nov-2006 | Andy KIM, GS1 Australia | 06-000283 |
| 14 – Nov-2006 | Andy KIM, GS1 Australia | 06-000282 |
| 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 |

| Date of Change | Version | Changed By | Reason for Change | Summary of Change | Model Build |
|----------------|---------|-------------------------------------|---|--|---|
| 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 currencyExchnageRate | 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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| Leon | Plaksin | GS1 Australia |
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| Pere | Rosell | GS1 Spain |
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| Marc | Yarbrough | Cadbury plc - North America |
| Greg | Zwanziger | SUPERVALU |

1.5.2. Design Team Members

| Function | Name | Organisation |
|---------------------------|----------------|-------------------|
| Modeler | John Ryu | GS1 Global Office |
| XML Technical Designer | Dipan Anarkat | GS1 Global Office |
| EANCOM Technical Designer | Not Applicable | 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

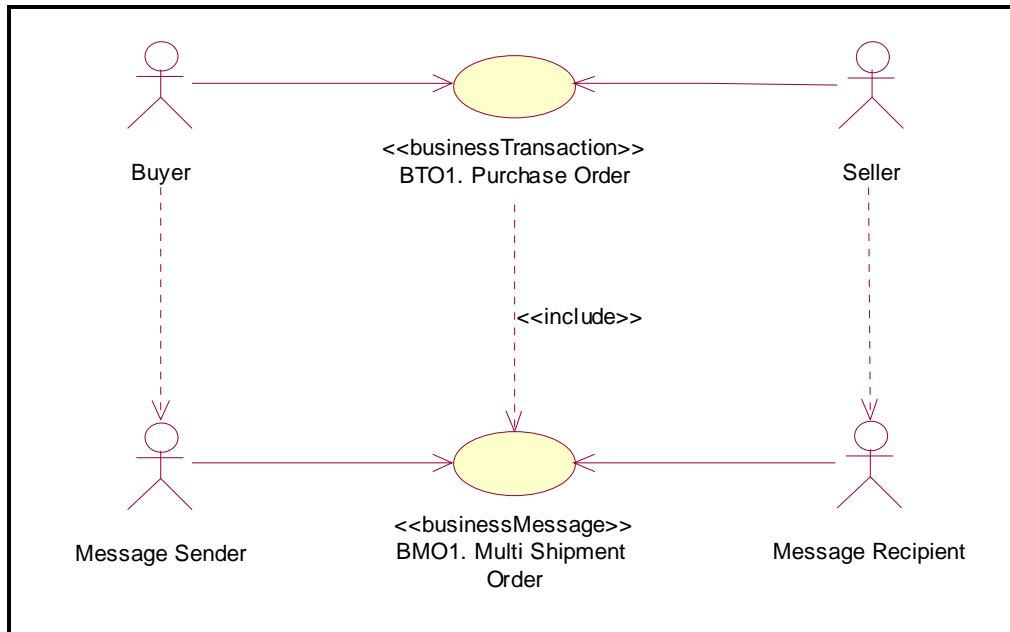
3.1. Technical Requirements (optional)

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><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td></td><td></td></tr></table> Ends when... | | | Step # | Actor | Activity Step | 1 | | |
| Step # | Actor | Activity Step | | | | | | | |
| 1 | | | | | | | | | |
| Alternative Scenario | <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td></td><td></td></tr></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

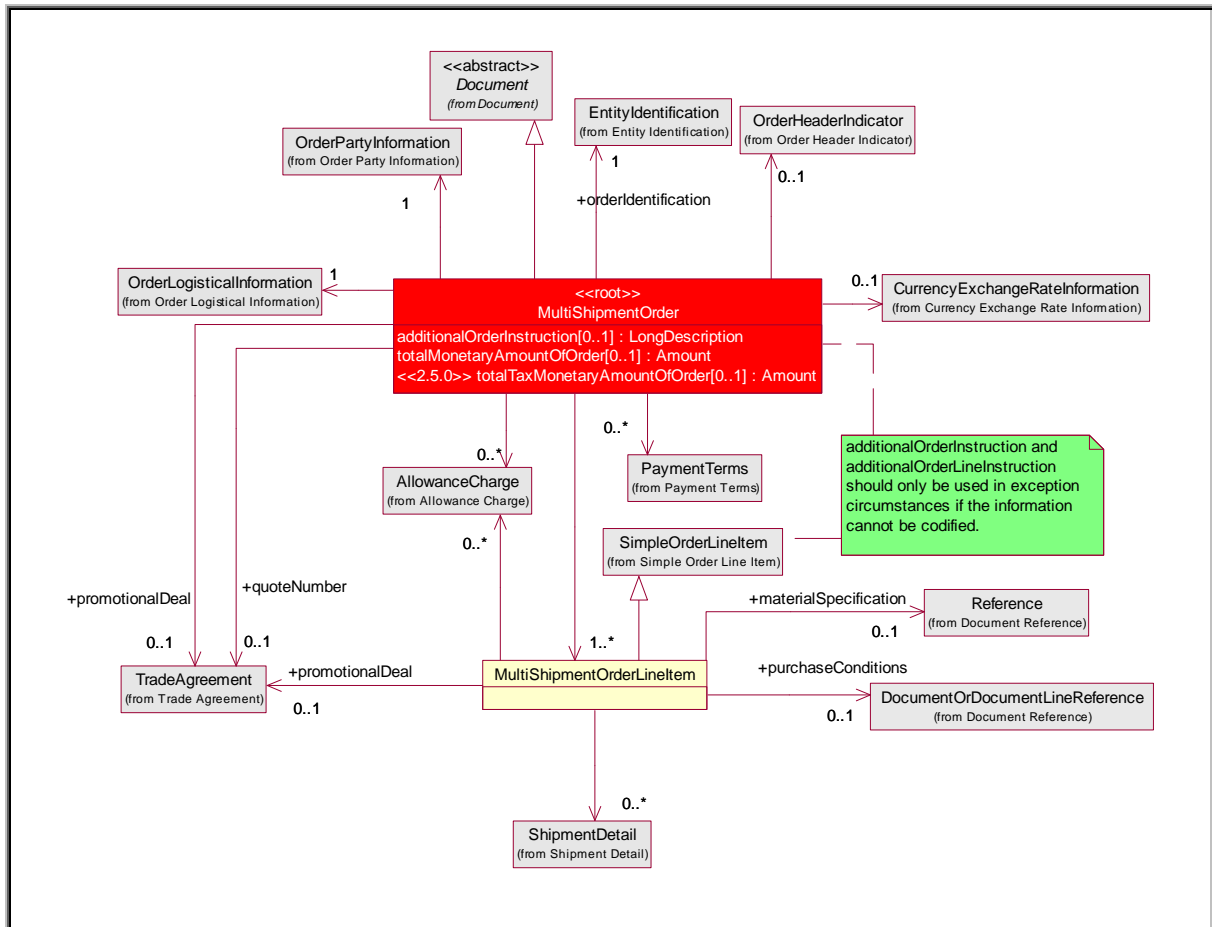
| Class (ABIE) | Attribute (BBIE) | Association (ASBIE) | Secondary Class | Official Dictionary Entry Name | Definition | Multiplicity | Data Type Components | Related Requirements | Facets |
|--------------------|-------------------------------|---------------------|-----------------|---|--|--------------|--|---|--------|
| 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 |
| Document | |
| 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 | |
| LineItem | |
| 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 | |
| Document | |
| 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) | |

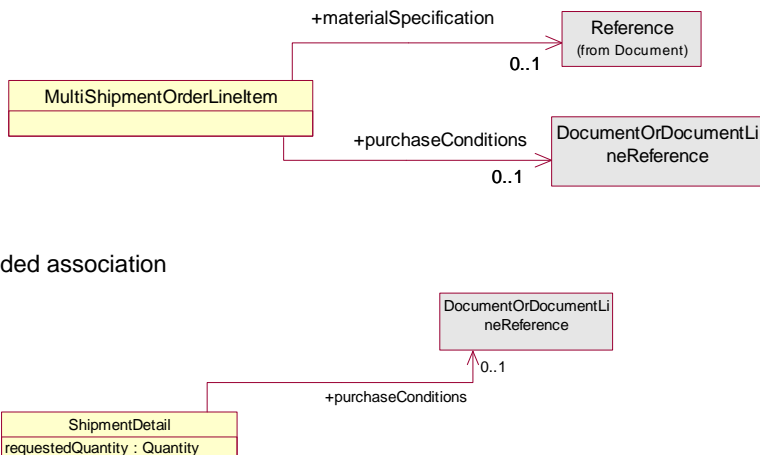
| | |
|--|----------------------------|
| gLN | 7594567000090 |
| OrderLogisticalDateGroup | |
| LogisticalDate (+requestedDeliveryDate) | |
| date | 2004-07-23 |
| MultiShipmentOrderLineItem | |
| SimpleOrderLineItem | |
| LineItem | |
| lineItemNumber | 1 |
| requestedQuantity | 39, EA |
| lineItemActionCode | 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

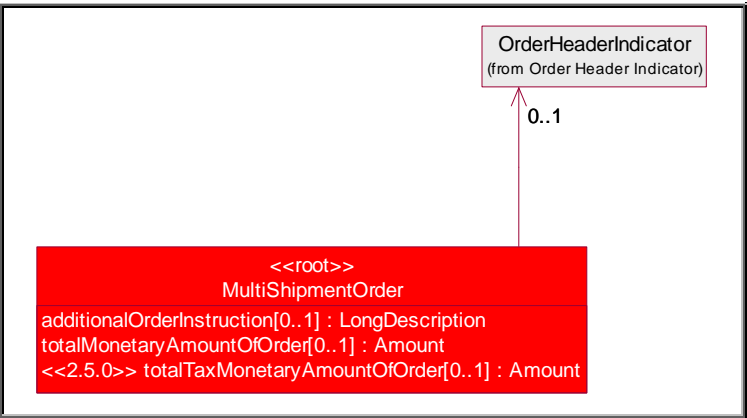
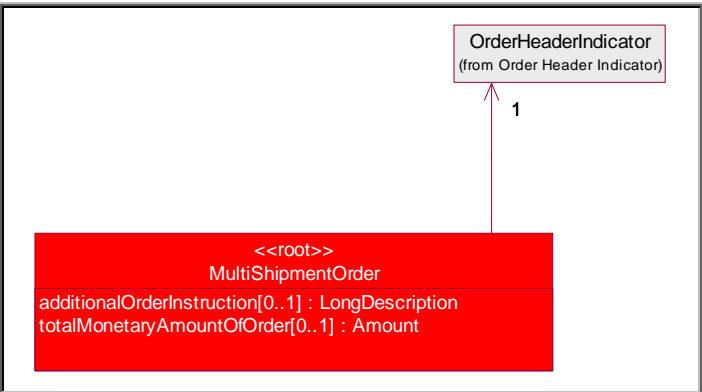
10. Summary of Changes

| Change | BSD Version | Associated CR Number |
|---|-------------|----------------------|
| <p>Removed external class diagrams. External class diagrams should be referenced in the Common Library BSD.</p> <p>Updated MultiShipToOrder class diagram</p> <p>Added an optional association from ShipToDetail to TransportationMode.</p> <p>Added an optional association from ShipToLogistics to TransportationMode.</p> <p>Added an optional association from SimpleOrderLineItem to TransportationMode.</p> <p>Added optional association from TransportationMode to PartyIdentification with role of +carrier</p> <p>Still need definitions in GDD and updates needed to GDD Platform to generated the Official Dictionary Entry Name.</p> <p>Updated footer</p> | 0.10.0 | |
| <p>GDD platform has been updated, and the output copied in section 1.5.2 GDD Report.</p> <p>Vicky and Order BRG need to validate the definitions and provide definitions for "Not Available".</p> | 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 |
| <p>Changed some associations from MultiShipmentOrderLineItem → TradeAgreement: +purchaseConditions now associates to the DocumentOrDocumentLineReference class. +materialSpecification now relates to the Reference class.</p>  <pre> classDiagram class MultiShipmentOrderLineItem class Reference["Reference (from Document)"] class DocumentOrDocumentLineReference["DocumentOrDocumentLineReference"] class ShipmentDetail["ShipmentDetail requestedQuantity : Quantity"] MultiShipmentOrderLineItem --> Reference : +materialSpecification 0..1 MultiShipmentOrderLineItem --> DocumentOrDocumentLineReference : +purchaseConditions 0..1 ShipmentDetail --> DocumentOrDocumentLineReference : +purchaseConditions 0..1 </pre> <p>Added association</p> | 0.12.0 | 04-000212 |

| Change | BSD Version | Associated CR Number |
|--|-------------|--|
| <p>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.</p> | 0.12.1 | 05-000084 |
| <p>Changed name of TransportationInformation class into ShipmentTransportationInformation.</p> | 0.12.3 | 05-000084 |
| <p>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).</p> | 0.12.4 | |
| <p>Modification in Examples and Test Data A and D Use correct class names on section 1.7</p> | 0.12.5 | 05-000084 |
| <p>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</p> | 0.12.6 | Based on ITRG Comment Resolution Feedback. |
| <p>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 NameAndAddress and Optional (0..1)association to Contact.</p> | 0.13.0 | 06-000282 06-000283 06-000285 06-000297 |
| <p>Inserted Order Logistical Information Updated GDD inventoryLocation defined as Identifies the location of merchandise or stock on hand.</p> | 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 |
|---|-------------|----------------------|
| <p>Updated test data based on Public Review Comment Resolution.</p> <p>OrderHeaderIndicator isApplicationReceiptAcknowledgementRequired TRUE isOrderFreeOfExciseTaxDuty FALSE</p> | 0.14.3 | Not Applicable |
| <p>eCom BRG eBallot Approval Updated BMS to Approved</p> | 0.14.4 | Not Applicable |
| <p>MutliShipmentOrder</p> <p>Added attribute (CR 8-7) totalTaxMonetaryAmountOfOrder[0..1] : Amount (8-209) Changed multiplicity from (1..1) TO (0..1) for backward compatibility rules. MutliShipmentOrder→OrderHeaderIndicator</p> <p>BMS Release 2.5.0</p>  <p>BMS Release 2.4.0</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 |