



Order Response

Business Message Standard (BMS)

Release 3.1

1-May-2013, Issue 1

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20- Aug- 2008	John Ryu, GS1	08-000209
14- Mar -2008	Troy Denyer, GS1 Australia	08-000053
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03 – Oct- 2007	Eric Maree, Accenture	07-000338
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Business Requirements Document (BRAD) Reference

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BRAD Title:	BRAD Date:	BRAD Version
BRD for UK Food Service Ordering	24 Nov 2004	BRAD Version 0.8
BRAD for Upstream Standards Demand & Supply Signals	01 Nov 2004	BRAD Version 0.1.0
BRAD for Upstream Standards Demand & Supply Signals	07 Apr 2005	BMS Release Version 2.0.2 and BMS Document Version 0.1.13
BRAD eCom Maintenance Release 2 BMS 2.6.0	29-Jun-2009	Version 0.1.1
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Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
12-Jan-2012	1.0.0	Mark Van Eeghem	BMS Publication	Noted in Summary of Changes
1-May-2013	3.1 issue 1	Coen Janssen	BMS 3.1, first draft	Noted in Summary of Changes

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1. Business Domain View

1.1. Problem Statement / Business Need

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

The Order Response allows the seller to inform:

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

1.2. Objective

This standard defines the transaction model and data model for the following business message:

- Order Response

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	BMS Common Library	BMS Release Version 2.4
Ref 2	BRD OFSCI Order	BRD Version 1.0
Ref 3	BRD Order Receipt Acknowledgement	BRD Version 0.3
Ref 4	BMS Application Receipt Acknowledgement	BMS Version 2.0.2
Ref 5	BMS Common Library	BMS Release Version 2.6.0
Ref 6	BMS eCom Domain Common Library	BMS Release Version 3.0.0
Ref 7	BMS Shared Common Library	BMS Release Version 3.0.0

1.5. Acknowledgements

1.5.1. Work Group

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Co-chair	Rossner (Pottier), Natascha	GS1 France
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Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG

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Member	Przybilla, Christian	GS1 Germany
Member	Pujol, Xavier	GS1 Spain
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Member	Tyson, Betty	Knouse Foods Cooperative, Inc
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Member	Welch, Shan	GS1 UK
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Member	Wilson, Mary	GS1 US
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Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

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Standards Content Lead	Coen Janssen	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Eric Kauz	GS1 Global Office

2. Business Context

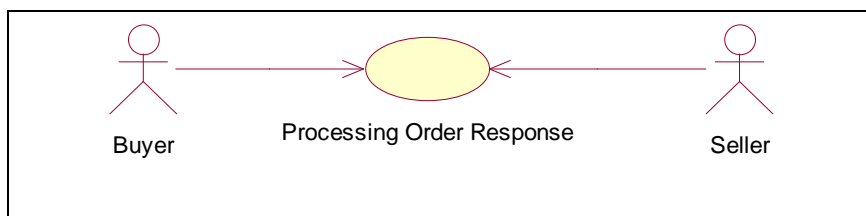
Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Order
System Capabilities	All
Official Constraints	None

3. Business Transaction View

3.1. Business Transaction – Processing Order Response

Use Case Diagram

Figure 3-1 Processing Order Response Use Case Diagram



Use Case Description

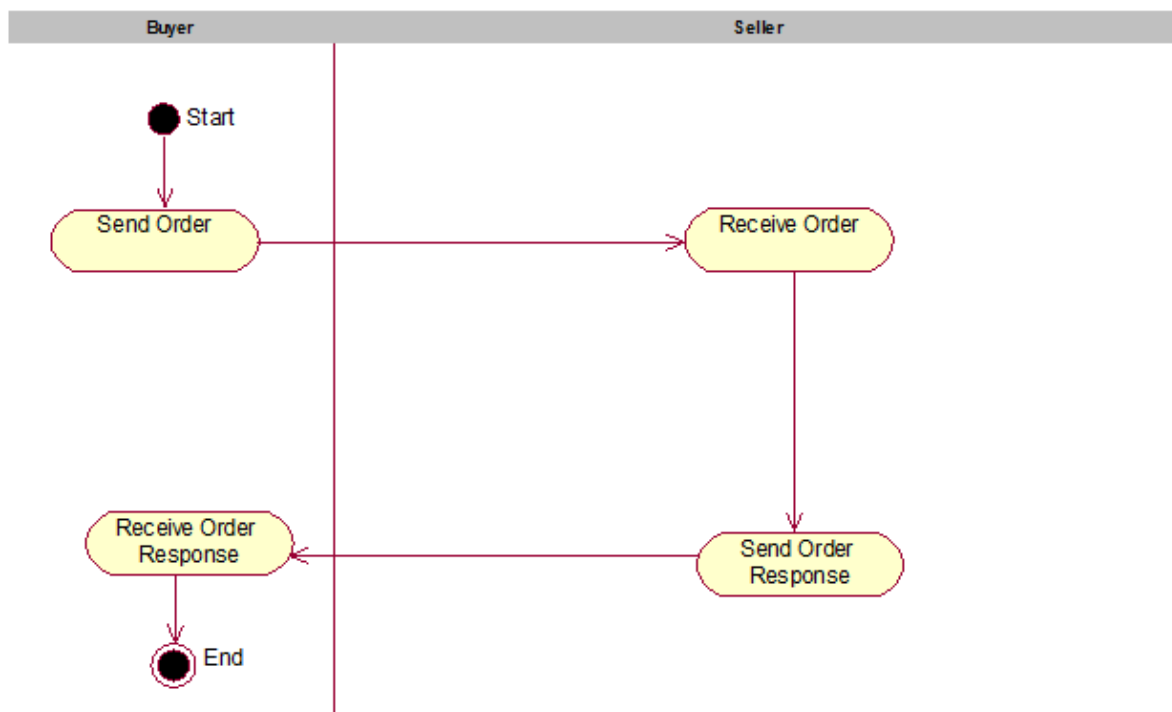
Use Case ID	UC-1
Use Case Name	Processing Order Response
Use Case Description	<p>The seller needs to inform the buyer about the:</p> <ul style="list-style-type: none"> Acceptance of the entire order as transmitted. The acceptance of the order with modifications on items (substitutes), quantities, prices and/or dates with modification reason. Rejection of the entire order with rejection reason.
Actors (Goal)	<p>Buyer (Process Order Response)</p> <p>Seller (Process Order Response)</p>
Performance Goals	None
Preconditions	<p>The following information should be pre aligned:</p> <ul style="list-style-type: none"> Master Data Alignment A trading partner agreement is in place that identifies pre-agreed product substitution. A trading partner agreement may exist regarding Response Receipt Lead Time: The agreed on time that is allowed to elapse between when a Buyer sent an Order to the

	<p>Seller and the Seller is to send an Order Response. To the Buyer</p> <ul style="list-style-type: none"> ■ The Seller has received the Order from the Buyer 													
Post conditions	<ul style="list-style-type: none"> ■ Acceptance of the entire order as transmitted: <ul style="list-style-type: none"> ○ Buyer – Knows that the order has been accepted and has received an Order Response ○ Seller – Has agreed to fulfil the order in full ■ Acceptance of the order with modifications: <ul style="list-style-type: none"> ○ Buyer – Knows that the order has been accepted and has received an Order Response. ○ Seller – Has agreed to fulfil the order with modifications on items (substitutes), quantities, prices and/or dates with modification reason ■ Rejection of the entire order. <ul style="list-style-type: none"> ○ Buyer – Knows that the order has been rejected and has received an Order Response ○ Seller – Has rejected the order in full with rejection reason 													
Scenario	<p>Begins when the seller receives an order from the buyer</p> <p>Continues with...</p> <table border="1"> <thead> <tr> <th>Step #</th><th>Actor</th><th>Activity Step</th></tr> </thead> <tbody> <tr> <td>1</td><td>Seller</td><td>Decides to accept the order with no modifications</td></tr> <tr> <td>2</td><td>Seller</td><td> <p>If not, the Seller decides:</p> <ul style="list-style-type: none"> • to accept the order with modifications on items (substitutes), quantities, prices and/or dates with modification reason • whether to reject the entire order with rejection reason </td></tr> <tr> <td>3</td><td>Seller</td><td>Sends an Order Response</td></tr> </tbody> </table> <p>Ends when the buyer has received the order response from the seller.</p>		Step #	Actor	Activity Step	1	Seller	Decides to accept the order with no modifications	2	Seller	<p>If not, the Seller decides:</p> <ul style="list-style-type: none"> • to accept the order with modifications on items (substitutes), quantities, prices and/or dates with modification reason • whether to reject the entire order with rejection reason 	3	Seller	Sends an Order Response
Step #	Actor	Activity Step												
1	Seller	Decides to accept the order with no modifications												
2	Seller	<p>If not, the Seller decides:</p> <ul style="list-style-type: none"> • to accept the order with modifications on items (substitutes), quantities, prices and/or dates with modification reason • whether to reject the entire order with rejection reason 												
3	Seller	Sends an Order Response												
Alternative Scenario	None													
Related Requirements	None													
Related Rules	1	If the order is accepted as transmitted, there is no item level information needed in the order response. The response status submitted within the order response must be ACCEPTED.												
	2	<p>If the order is accepted with modifications on the item level, only the changed items need to be included in the order response.</p> <p>For each changed item, all product attributes, not only the changed ones, have to be transmitted in the order response.</p> <p>A reference to the line number in the original order must be used. If a substitute article with a new GTIN is used, the GTIN of the new article is indicated in the substituteItemInformation.</p> <p>The response status within the order response must be MODIFIED, and the seller may provide the modification reason.</p>												
	3	If the order is accepted with modifications in the orderLogisticalDateGroup, the whole group including all attributes, not only the changed ones, must be transmitted in the order response. The response status within the order response must be MODIFIED, and the seller may provide the modification reason.												
	4	In the case of substitutions, the order line will be returned with the product identification associated with the substituted item, quantity and the original												


		line number. This will detail the new product and quantity based on the agreed substitution rules (as per trading partner agreement)
	5	<p>If the order is rejected, there is no item level information needed in the order response.</p> <p>The response status submitted within the order response must be REJECTED, and the seller may provide the rejection reason.</p>

Business Transaction Activity Diagram

Figure 3-3 Order Response Activity Diagram

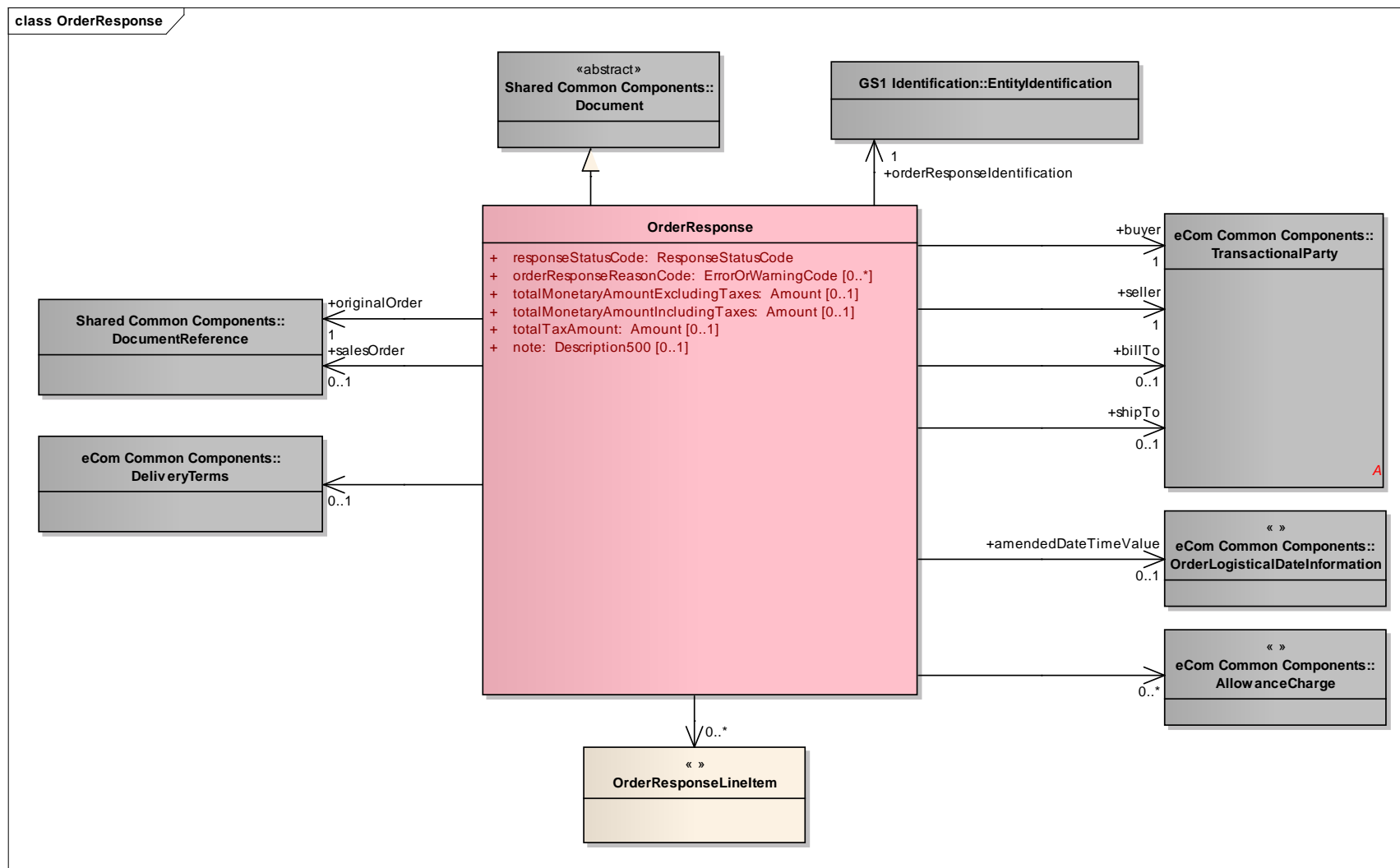


4. Business Information View

 **Note:** Reference Shared Common Library Business Message Release 3.0.0 and eCom Domain Common Library Business Message Release 3.0.0 for all common information.

4.1. Order Response

Class Diagram



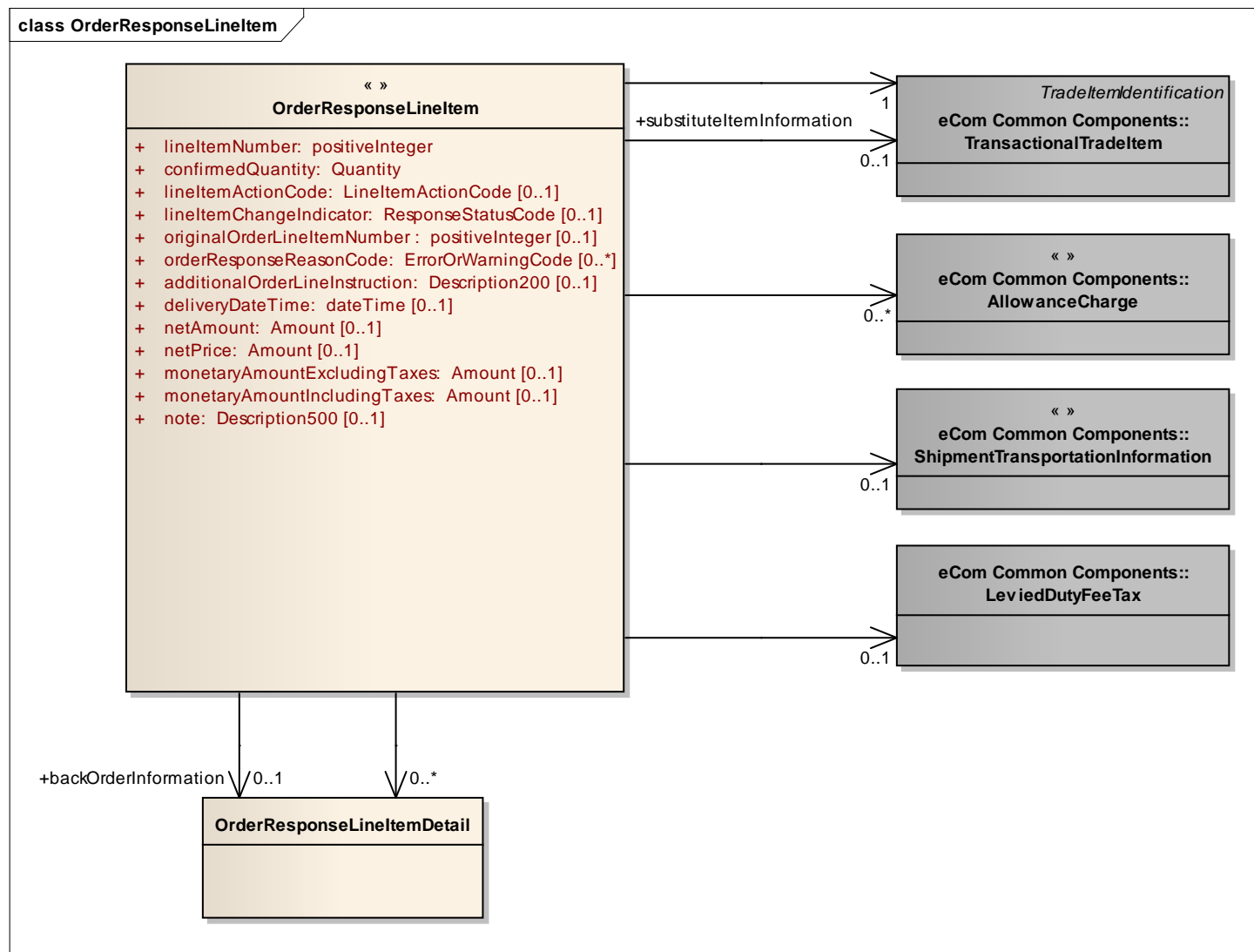
GDD report

Content	Attribute / Role	Datatype /Secondary class	Multi plicit y	Definition	Requirements
OrderResponse				Provides the ability for a supplier to respond to an order previously sent by the buyer.	
Association	originalOrder	DocumentReference	1..1	Reference to the order on which the response is based.	
Association	salesOrder	DocumentReference	0..1	Reference number assigned by the supplier to a buyer's purchase order.	
Association	orderResponseIdentification	EntityIdentification	1..1	The unique identification of the Order Response.	
Association	buyer	TransactionalParty	1..1	Identifies the party to which products or services are sold.	
Association	seller	TransactionalParty	1..1	Identifies the party which sells products or services to a buyer.	
Association	billTo	TransactionalParty	0..1	Identifies the party which receives the invoice.	
Association	shipTo	TransactionalParty	0..1	Identifies the destination location to which goods will be shipped.	
Association		DeliveryTerms	0..1	The applicable legal, customs, financial and insurance terms that have been agreed for a goods delivery.	
Association	amendedDateTimeValue	OrderLogisticalDateInformation	0..1	Contains the modifications on dates or date ranges of the original order.	
Association		AllowanceCharge	0..*	Provide the ability to share details regarding the allowance and charges.	
Association		OrderResponseLineItem	0..*	Contains the modifications per line item on items (substitutes), quantities, prices of the original order.	
Generalization		Document		Contains the information related with the document in the Order Response.	
Attribute	responseStatusType	ResponseStatusCode	1..1	Code specifying the type of response. Example: Accepted.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	orderResponseReasonCode	ErrorOrWarningCode	0..*	Order Response Reason Code is defined as the code identifying the reason for the order response rejection or modification.	
Attribute	note	Description500	0..1	Free text used to convey information that is not processed by applications. Only meant to present the information to a user as on a screen, in a browser, etc.	BRAD RQ 09.236.F
Attribute	totalMonetaryAmountExcludingTaxes	Amount	0..1	The total monetary amount of the purchase order excluding all taxes.	renamed from totalMonetaryAmountOfOrderExcludingTaxes
Attribute	totalMonetaryAmountIncludingTaxes	Amount	0..1	The total monetary amount of the Purchase Order including all Taxes. This field is needed to allow effective purchase order and invoice total value reconciliation.	
Attribute	totalTaxAmount	Amount	0..1	The total tax amount of the purchase order.	

4.2. Order Response Line Item

Class Diagram



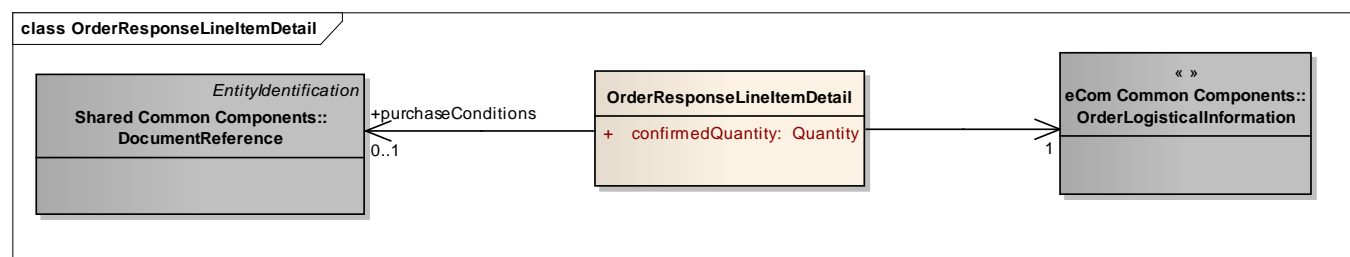
GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
OrderResponseLineItem				Contains the modifications per line item on items (substitutes), quantities, prices and/or of the original order.	
Association	backOrderInformation	OrderResponseLineItemDetail	0..1	Contains the information for units that are unable to be shipped at this time. These units will be shipped at a later time.	
Association	substituteItemInformation	TransactionalTradeItem	0..1	The substitute trade item associated to the Order Response Line Item. This item replaces the item that was originally requested.	
Association		TransactionalTradeItem	1..1	The trade item associated to the Order Response Line Item.	
Association		AllowanceCharge	0..*	Provide the ability to share details regarding the allowance and charges.	
Association		OrderResponseLineItemDetail	0..*	Allows the identification of various shipping details by Order Response Line Item, for example in case of split deliveries.	
Association		LeviedDutyFeeTax	0..1	The tax applicable to the Order Line Item.	
Association		ShipmentTransportationInformation	0..1	Contains the identification of the carrier and mode associated with the transportation of the goods or services.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Simple Order Line Item.	
Attribute	confirmedQuantity	Quantity	1..1	The quantity which has been confirmed by the seller.	MR3 renamed from requestedQuantity
Attribute	orderResponseReasonCode	ErrorOrWarningCode	0..*	Order Response Reason Code is defined as the code identifying the reason for the order response rejection or modification.	
Attribute	additionalOrderLineInstruction	Description200	0..1	Additional Order Line 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 of Purchase Order Line: Use chrome hinges (not standard brass hinges) Please use timber prime (paint) door and jamb and pre-hang door	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	deliveryDateTime	dateTime	0..1	Provides the delivery date time the goods will be delivered to the desired destination.	
Attribute	lineItemActionCode	LineItemActionCode	0..1	Provides the activity required by the recipient on the line item of this order line item.	
Attribute	lineItemChangeIndicator	ResponseStatusCode	0..1	Provides the response in the order response line item level.	
Attribute	netAmount	Amount	0..1	Identifies the total net amount of the line item.	
Attribute	netPrice	Amount	0..1	Identifies the net price of the item.	
Attribute	monetaryAmountExcludingTaxes	Amount	0..1	The total monetary amount of the order response line excluding all taxes.	
Attribute	monetaryAmountIncludingTaxes	Amount	0..1	The total monetary amount of the Order Response Line including taxes.	
Attribute	note	Description500	0..1	Free text used to convey information that is not processed by applications. Only meant to present the information to a user as on a screen, in a browser, etc.	BRAD RQ 09.236.F
Attribute	originalOrderLineItemNumber	positiveInteger	0..1	A reference to the original order line item number.	

4.3. Order Response Line Item Detail

Class Diagram



GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
OrderResponseLineItemDetail				Allows the identification of various shipping details by Order Response Line Item.	
Association	purchaseConditions	DocumentReference	0..1	A reference to the purchase conditions. The reference is associated with specific items in the order.	
Association		OrderLogisticalInformation	1..1	Provides identification of the locations of the parties dealing with the goods associated with the order, as well as the dates or date ranges associated with the order and the transportation of the shipment associated with the order.	
Attribute	confirmedQuantity	Quantity	1..1	The quantity which has been confirmed by the seller.	MR3 renamed from requestedQuantity

4.4. Code Lists

Class	Codelist	Referenced in
OrderResponse & OrderResponseLineItem	ErrorOrWarningCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0
OrderResponse & OrderResponseLineItem	ResponseStatusCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0
OrderResponseLineItem	LineItemActionCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

5. Business Message Examples

5.1. Example A

A seller identified by the GS1 Global Location Number 4098765000010 has received an order from the buyer identified by the GS1 Global Location Number 5412345000013 and is sending his response.

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

The buyer ordered the following:

GS1 Global Trade Item Number (GTIN)	Quantity
4098765000027	48
4098765000034	24

The seller has modified the order. It will be delivered the 10th of November 2003; however, the quantity available for the trade item identified with the GS1 Global Number (GTIN) 4098765000027 is 40 because out of stock. The Order Response identification is: OR 002508 and it is created on November 4th 2003 at 10:00 AM.

Message Example A

OrderResponse	
responseStatusCode	MODIFIED
Document	
creationDateTime	2003 – 11 -04 10:00
documentStatusCode	ORIGINAL
Entity Identification (+orderResponseIdentification)	
entityIdentification	OR 002508
contentOwner	4098765000010
DocumentReference(+originalOrder)	
creationDateTime	2003-11-03
lineItemNumber	35

entityIdentification	PO02109
TransactionalParty (+buyer)	
gln	5412345000013
TransactionalParty (+seller)	
gln	4098765000010
OrderLogisticalDateInformation (+amendedDateTimeValue)	
DateOptionalTime (+requestedDeliveryDateTime)	
date	2003 -11- 10
OrderResponseLineItem	
lineItemNumber	1
confirmedQuantity	40
orderResponseReasonCode	PRODUCT_OUT_OF_STOCK
TransactionalTradeItem	
gtin	4098765000027

5.2. Example B

A seller identified by the GS1 Global Location Number 4098765000010 has received an order (PO022214) from the buyer identified by the GS1 Global Location Number 5412345000013 and is sending his response: Acceptance of the entire order as transmitted

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

Message Example B

OrderResponse	
responseStatusCode	ACCEPTED
Document	
creationDateTime	2004-02-04 08:00
documentStatusCode	ORIGINAL
Entity Identification (+orderResponseIdentification)	
entityIdentification	OR 002760
contentOwner	4098765000010
DocumentReference(+originalOrder)	
lineItemNumber	35
entityIdentification	PO022214
TransactionalParty (+buyer)	
gln	5412345000013
TransactionalParty (+seller)	
gln	4098765000010

5.3. Example C

A seller identified by the GS1 Global Location Number 4098765000010 has received an order (PO09873) from the buyer identified by the GS1 Global Location Number 5412345000013 and is sending his response: Rejection of the entire order. The reason for rejection is product was discontinued.

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

Message Example C

OrderResponse	
responseStatusCode	REJECTED
orderResponseReasonCode	DISCONTINUED_LINE
Document	
creationDateTime	2004-04-03 11:00
documentStatusCode	ORIGINAL
Entity Identification (+orderResponseIdentification)	
entityIdentification	OR 003895
contentOwner	4098765000010
DocumentReference(+originalOrder)	
lineItemNumber	35
entityIdentification	PO09873
TransactionalParty (+buyer)	
gln	5412345000013
TransactionalParty (+seller)	
gln	4098765000010

5.4. Example D

A seller identified by the GS1 Global Location Number 4098765000010 has received an order from the buyer identified by the GS1 Global Location Number 5412345000013 and is sending his response.

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

The buyer ordered the following:

GS1 Global Trade Item Number (GTIN)	Quantity
4098765000133	36
4098765000089	24

The seller has accepted the order. However, the trade item identified with the GS1 Global Number (GTIN) 4098765000133 is not available and it will be substituted with the trade item identified with the GS1 Global Number (GTIN) 4098765000348. The reason for modification is product is out of stock.

The Order Response identification is: OR 1211 and it is created on September 15th 2004 at 08:00 AM.

Message Example D

OrderResponse	
responseStatusCode	MODIFIED
Document	
creationDateTime	2004-09-15 08:00
documentStatusCode	ORIGINAL
Entity Identification (+orderResponseIdentification)	
entityIdentification	PO0222
contentOwner	7594567000014
DocumentReference(+originalOrder)	
lineItemNumber	35
entityIdentification	PO0825
TransactionalParty (+buyer)	
gln	5412345000013
TransactionalParty (+seller)	
gln	4098765000010
OrderResponseLineItem	
lineItemNumber	1
confirmedQuantity	36
orderResponseReasonCode	PRODUCT_OUT_OF_STOCK
TransactionalTradeItem	
gtin	4098765000348
TransactionalTradeItem (+substituteItemInformation)	
gtin	4098765000027

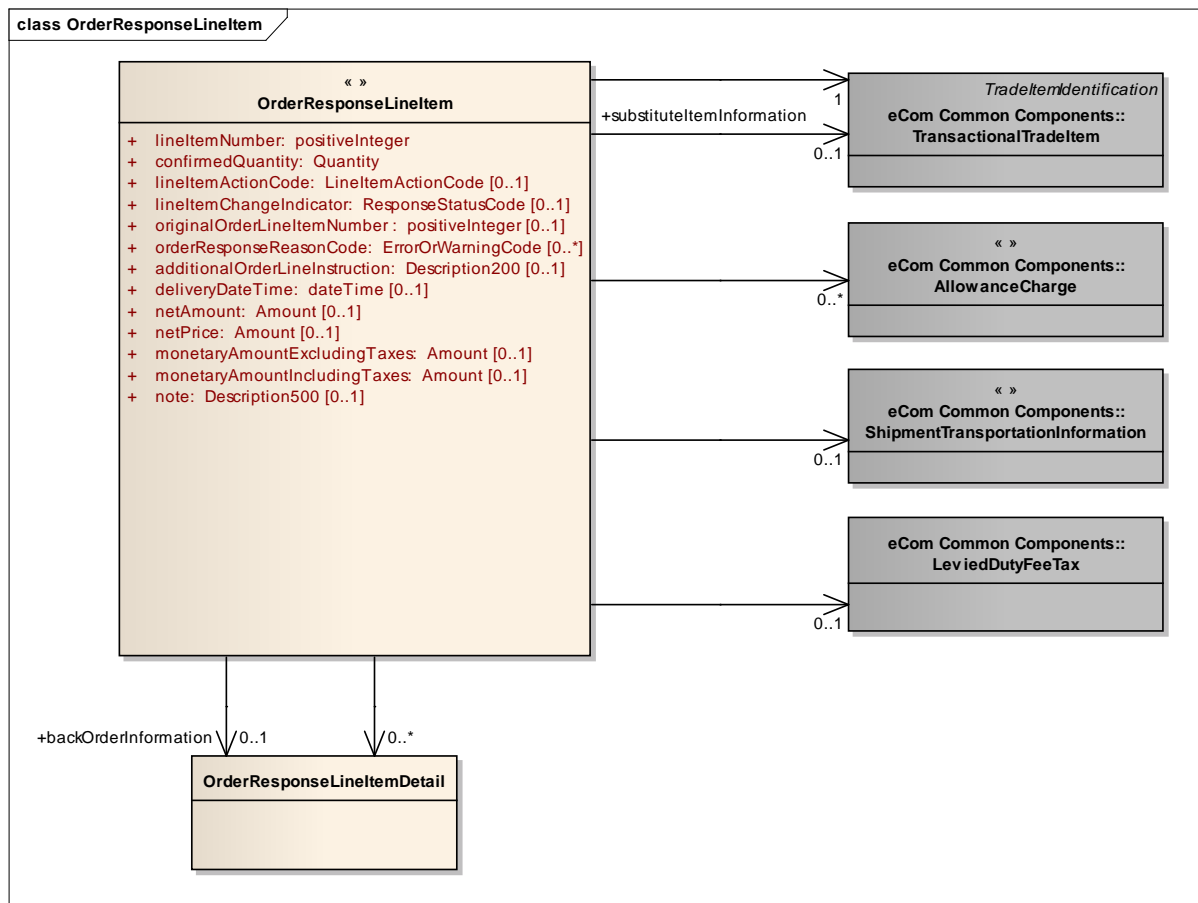
6. Implementation Considerations

For each order modification line item, there is an optional relationship to shipment details that supports two business scenarios:

6.1. Use of Order Reponse Line Item Detail

There are two distinctly different uses of the OrderResponseLineItemDetail class.

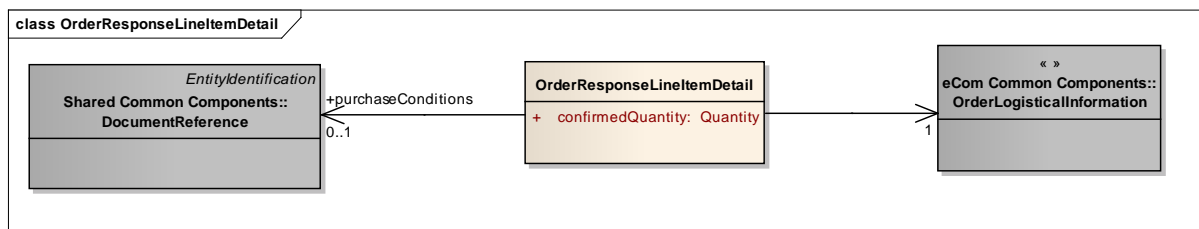
Figure 2 Class Diagram of OrderResponseLineItem



Usage 1 – Specification of the units are being shipped

Within the **OrderResponseLineItemDetail** class, the attribute 'confirmedQuantity' represents the quantity being shipped.

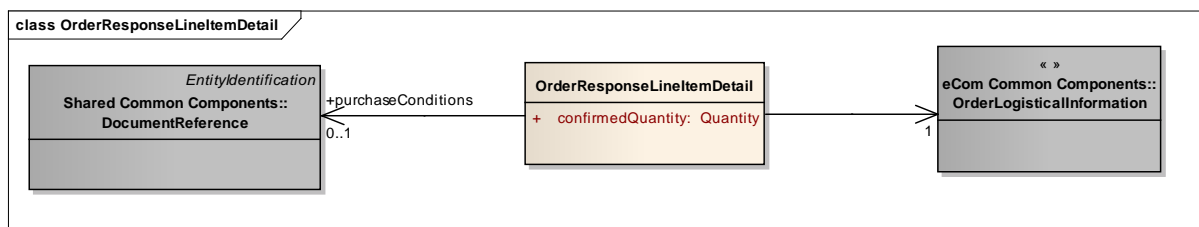
Figure 3 OrderResponseLineItemDetail



Note: For Reference Purposes only to provide visibility for this example.

Usage 2 – Specification of the units that are placed on backorder

Figure 4 OrderResponseLineItemDetail (+backOrderInformation)



The class gets roleName **+backOrderInformation**. Now, within the **OrderResponseLineItemDetail** class, the attribute 'confirmedQuantity' represents the quantity that is on backorder, to be shipped at another time. The backorder shipment dates, if known, can be sent in **OrderLogisticalInformation** which is associated with **OrderResponseLineItemDetail**.

6.2. Guidance on amounts in Order Response Line Item

The amounts in the order response line item may be applied in combination with each other as follows:

- $\text{netAmount} = \text{requestedQuantity} * \text{netPrice}$,
- $\text{amountExcludingTaxes} = \text{netAmount} + (\text{allowances} \ \& \ \text{charges})$
- $\text{amountIncludingTaxes} = \text{netAmount} + (\text{allowances} \ / \ \text{charges}) + (\text{taxes})$

7. Appendices

Not applicable.

8. Summary of Changes

8.1. BMS Release 3.0.0

Change	BSD Version	Associated CR Number
For BMS Release 3.0.0: <ul style="list-style-type: none"> Update based on requirements in the Current Requirements Queue. The message has also been remodelled to be consistent with Major Release 3.0.0. Updated class diagrams and GDD reports, as well as the example and test data sections. After Peer Review: <ul style="list-style-type: none"> Included the code lists and enumerations and reference where they can be found (eCom or Shared Common). The version of the document set to 1.0.0. Document change history wiped clean except for the latest version. In context, Geopolitical set to All instead of Global. Page 12 is not blank anymore Random order issue in GDD Report solved Removed 2 associations from Order Response Line Item to Shipment Detail that do not appear in the model. Associations from OrderResponse to EntityIdentification and Document Reference were missing Multiplicity in both the class diagram and the GDD report. Set both to 1..1 Missing definitions in GDD Report solved for: <ul style="list-style-type: none"> OrderResponseLineItemDetail: Documentreference +purchaseConditions / OrderLogisticalInformation After TSD Development: <ul style="list-style-type: none"> removed in test data reference to non existing elements referenceDocumentType, replaced by entityIdentification 	1.0.0	09-236, 09-238,09-240
For BMS Publication: <ul style="list-style-type: none"> Updated date in footer Removed year in footer copyright statement Renamed uniqueCreatorIdentification into entityIdentification in examples Changed lowerCamelCase into lowercase for all GS1 keys in examples Replaced architectural principles section with the correct one. 	1.0.0	

8.2. BMS Release 3.1.0

Change	Document version	Associated CR Number
<div> <div>class OrderResponse - maintenance view</div> <div> <div>OrderResponse</div> <div> + responseStatusCode: ResponseStatusCode + orderResponseReasonCode: ErrorOrWarningCode [0..*] + totalMonetaryAmountExcludingTaxes: Amount [0..1] + totalMonetaryAmountIncludingTaxes: Amount [0..1] + totalTaxAmount: Amount [0..1] + note: Description500 [0..1] </div> <div> maintenance Change: (New) 3.1 added association +billTo (WR 09-248) Change: (New) 3.1 added association +salesOrder (WR 12-251) Change: (New) 3.1 added association +shipTo (WR 09-248) Change: (New) 3.1 added association to DeliveryTerms Change: (New) 3.1 added totalMonetaryAmountIncludingTaxes (WR 12-212) </div> </div> </div>	Issue 1	WR 09-248 WR 09-249 WR 12-154 WR 12-212 WR 12-213 WR 12-251
<div> <div>class OrderResponseLineItem - maintenance view</div> <div> <div>« »</div> <div>OrderResponseLineItem</div> <div> + lineItemNumber: positiveInteger + confirmedQuantity: Quantity + lineItemActionCode: LineItemActionCode [0..1] + lineItemChangeIndicator: ResponseStatusCode [0..1] + originalOrderLineItemNumber: positiveInteger [0..1] + orderResponseReasonCode: ErrorOrWarningCode [0..*] + additionalOrderLineInstruction: Description200 [0..1] + deliveryDateTime: dateTime [0..1] + netAmount: Amount [0..1] + monetaryAmountExcludingTaxes: Amount [0..1] + monetaryAmountIncludingTaxes: Amount [0..1] + netPrice: Amount [0..1] + note: Description500 [0..1] </div> <div> maintenance Change: (Verified) 3.1 added monetaryAmountExcludingTaxes (WR 12-213) Change: (Verified) 3.1 added monetaryAmountIncludingTaxes (WR 12-213) </div> </div> </div> <p>■ Added 6.2 Guidance on amounts in Order Response Line Item, and corrected the guidance in paragraph 6.1 on Order Response Line Item Detail</p>		