



Configure to Order

Business Message Standard (BMS)

Release 3.2

01-Dec-2014, Issue 1



Document Summary

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21- Mar -2007	GS1 Netherlands	07-000098
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07-Feb-2014	GS1 Germany	14-000021
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Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
BRD Configure to Order	01- Nov-2003	0.1.5
BRAD For Multi Shipment Order Receipt Response and Excise Tax Free	6-Jun-2007	0.0.4
BRAD eCom Maintenance Release 2 BMS 2.6.0	29-Jun-2009	Version 0.1.1
BRAD for Current Requirements Queue (Major Release 3)	23-Nov-2010	Version 0.2.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
12-Jan-2012	BMS 3.0 – Issue 1	Mark Van Eeghem	BMS Release 3.0	See summary of changes
01-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Release 3.1	See summary of changes
01-Dec-2014	BMS 3.1 – Issue 1	Ewa Iwicka	BMS Release 3.2	See summary of changes

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1. Business Domain View

1.1. Introduction

Message Definition

The Configure to Order provides the ability for a buyer to order configurable items, that starts with a base item, but to which a large variety of options may be added in a variety of combinations.

Principles

A unique product identification code is assigned to the main structure of a configurable item, but due to the variety of combinations of options, it is NOT practical to assign unique product identification to each completed configured item.

1.2. References

Reference Name	Description
BRD Configure to Order	BRD Version 0.1.5
BMS eCom Domain Common Library	BMS Release 3.1
BMS Shared Common Library	BMS Release 3.1
Business Requirements Analysis Document (BRAD) For Multi Shipment Order Receipt Response and Excise Tax Free	BRAD Version 0.0.4
Business Requirements Analysis document (BRAD) for Current Requirements Queue (Major Release 3)	BRAD Version 0.2.0

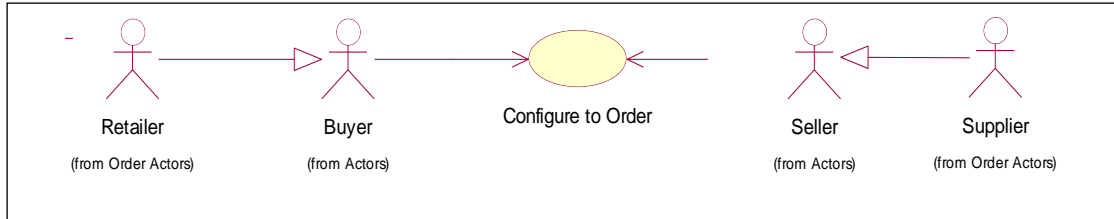
2. Business Context

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

3. Business Transaction View

3.1. Business Transaction – Configure to Order

Use Case Diagram



Use Case Description

Use Case ID	UC -1
Use Case Name	Ordering of Configurable Items specifying ship to location
Use Case Description	<p>This Use Case provides the ability for a buyer can create one order for one or more configurable items.</p> <p>One order can contain order lines for configurable items as well as order lines for stock items.</p>
Actors (Goal)	Buyer, Seller, Consumer
Performance Goals	Not Applicable
Preconditions	<ul style="list-style-type: none"> ■ The Buyer and Seller have aligned Party and Item information, with the exception of the values of the consumer's options for the configurable item. ■ During data alignment, the retailer has received from the manufacturer item definition information that defines exactly which options are available on each configurable item, and which values may be used in each of those options. ■ The Buyer and Seller agree that each can produce and process an order with configurable items. ■ The Buyer and Seller agree on whether an Order Response message is required, as an option based on the pre-determined trading partner agreements.
Post conditions	The Seller has received the Configure to Order sent by the Buyer

Scenario	Begins when... An end-consumer walks into a retail store and buys a configurable item (e.g. sofa).									
	Continues with...									
	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Consumer/Retailer</td><td>In the process of ordering, makes many decisions about the finished piece, choosing from a wide variety options (e.g. fabric). The options that can be selected are all totally defined with the publication of the item identification, as offered by the manufacturer.</td></tr><tr><td>2</td><td>Consumer/Retailer</td><td>Sends the order to the manufacturer with instructions on which base item to start with (e.g. frame), which options to include, and with which values each option should be constructed. The resulting piece may literally be a “one-of-a-kind” piece, depending on what options the customer chooses.</td></tr></table>	Step #	Actor	Activity Step	1	Consumer/Retailer	In the process of ordering, makes many decisions about the finished piece, choosing from a wide variety options (e.g. fabric). The options that can be selected are all totally defined with the publication of the item identification, as offered by the manufacturer.	2	Consumer/Retailer	Sends the order to the manufacturer with instructions on which base item to start with (e.g. frame), which options to include, and with which values each option should be constructed. The resulting piece may literally be a “one-of-a-kind” piece, depending on what options the customer chooses.
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2	Consumer/Retailer	Sends the order to the manufacturer with instructions on which base item to start with (e.g. frame), which options to include, and with which values each option should be constructed. The resulting piece may literally be a “one-of-a-kind” piece, depending on what options the customer chooses.								
Ends when... the Seller receives the Configure to Order for processing										
Alternative Scenario	Not Applicable									
Related Requirements	Not Applicable									
Related Rules	Not Applicable									

Activity Diagram

Not Applicable

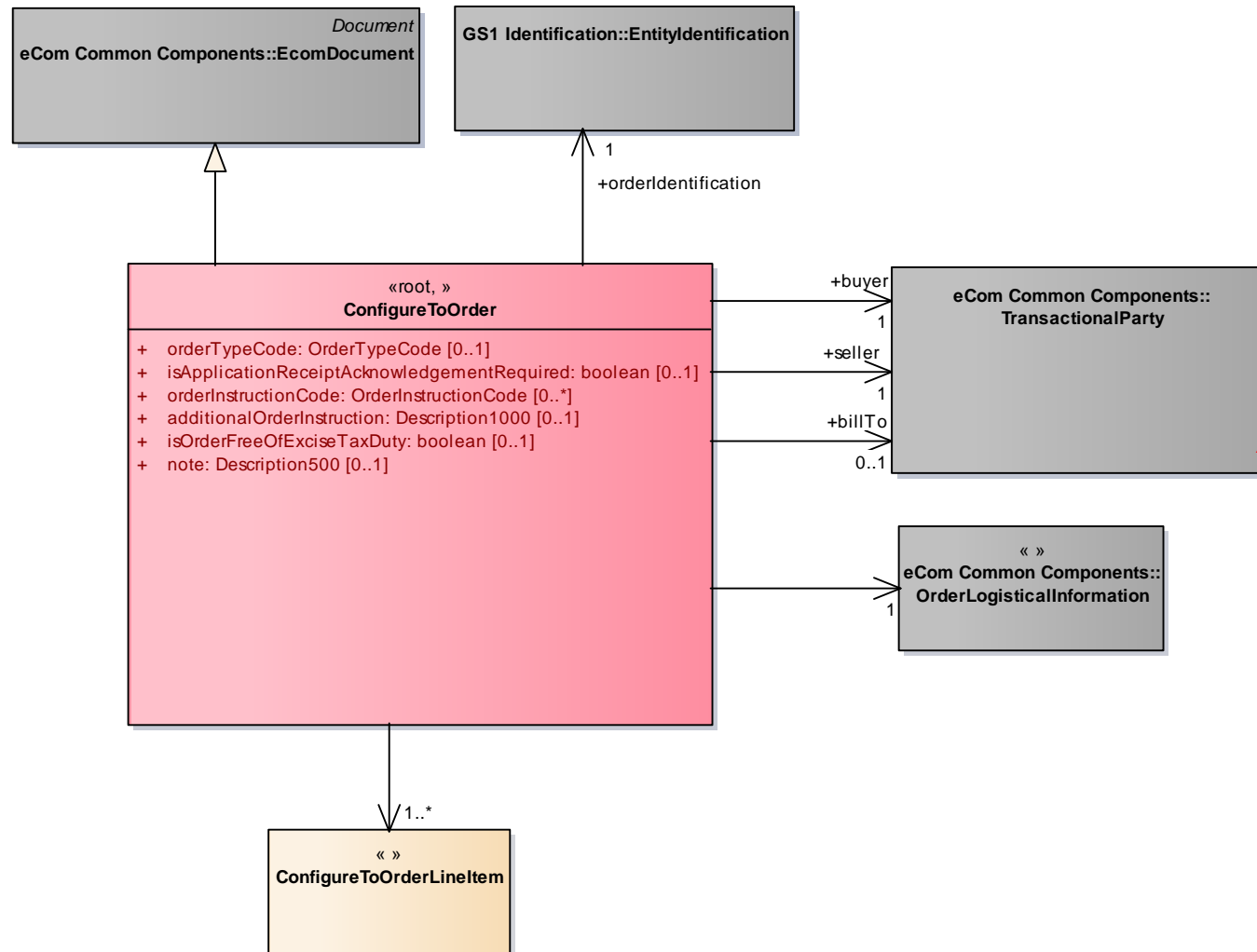
Sequence Diagram

Not Applicable

4. Business Information View

4.1. Configure To Order

Class Diagram



GDD Report

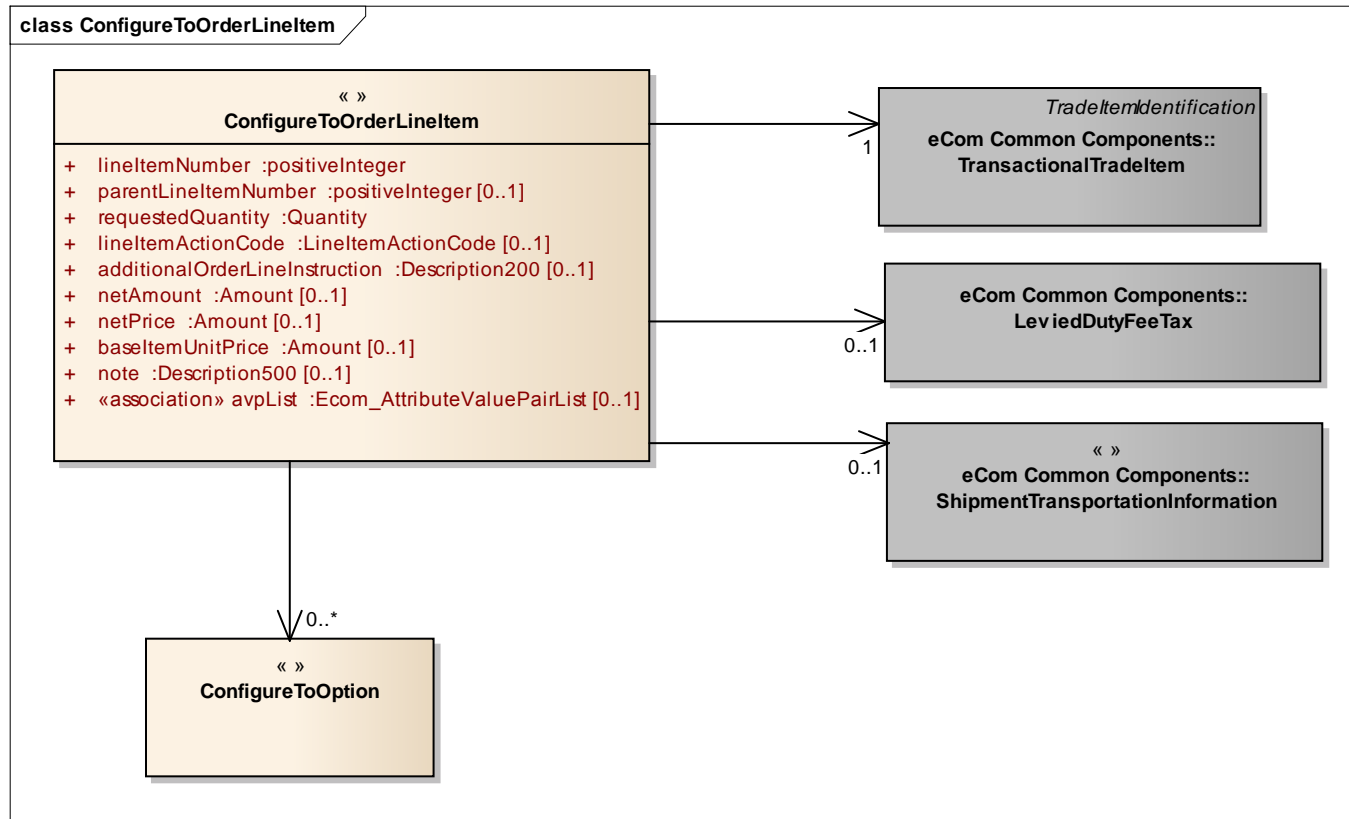
The content of the ConfigureToOrder class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConfigureToOrder

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ConfigureToOrder				The Configure to Order provides the ability for a buyer to order configurable items, that starts with a base item, but to which a large variety of options may be added in a variety of combinations.	
Association		ConfigureToOrderLineItem	1..*	The line item details of the Configure To Order message.	
Association	seller	TransactionalParty	1..1	Identifies the party which sells products or services to a buyer.	
Association		OrderLogisticalInformation	1..1	Contains the information related with the dates and destinations of the goods or services.	
Association	buyer	TransactionalParty	1..1	Identifies the party to which products or services are sold.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association	billTo	TransactionalParty	0..1	Identifies the party which receives the invoice.	
Association	orderIdentification	EntityIdentification	1..1	Provides the unique identification for the Configure To Order.	
Attribute	orderTypeCode	OrderTypeCode	0..1	Identifies the kind of Purchase Order, enabling the recipient of the order to determine the appropriate processing.	
Attribute	isApplicationReceiptAcknowledgementRequired	boolean	0..1	A buyer's requirement to receive an order receipt acknowledgement from the seller's application system to ensure the seller received the order message.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	orderInstructionCode	OrderInstructionCode	0..*	Provides special order conditions.	CRQ 10-019
Attribute	additionalOrderInstruction	Description1000	0..1	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.	
Attribute	isOrderFreeOfExciseTaxDuty	boolean	0..1	An excise tax is a tax applied to the consumption of a particular type of good, such as alcohol or tobacco. Excise taxes apply at the same rates to domestic or imported goods. They must not be confused with customs duties which apply to imports only.	
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

4.2. Configure To Order Line Item

Class Diagram



GDD Report

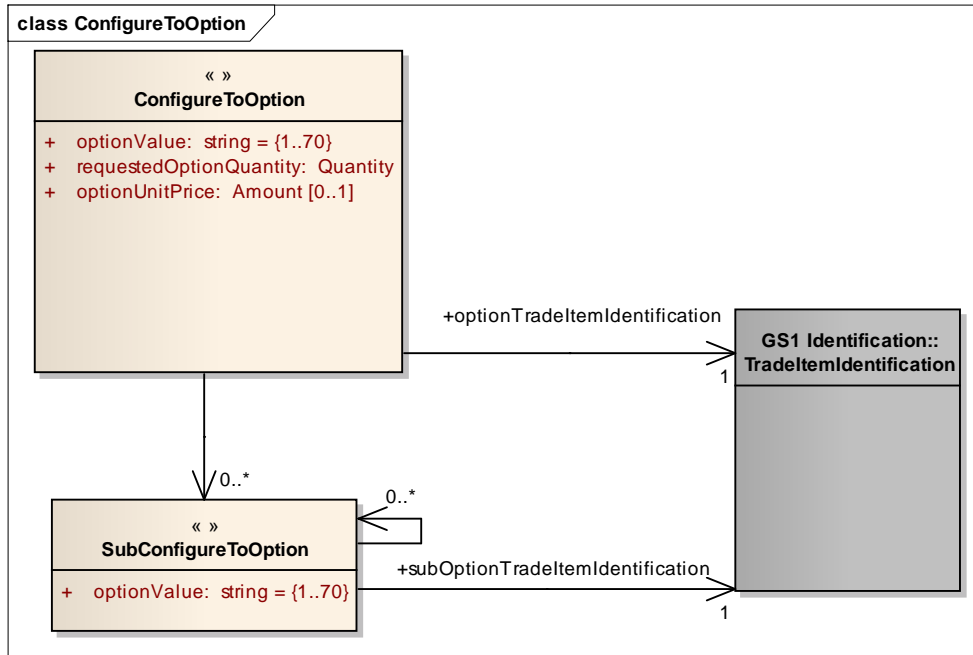
The content of the ConfigureToOrderLineItem class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConfigureToOrderLineItem

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ConfigureToOrderLineItem				Specifies the information related to each line item. Each Configure To Order will contain one or more line items.	
Association		ShipmentTransportationInformation	0..1	Contains the identification of the carrier and mode associated with the transportation of the goods or services.	
Association		ConfigureToOption	0..*	A configure to option associated with a Configure To Order.	
Association		TransactionalTradeItem	1..1	The trade item associated to the Configure To Order Line Item.	
Association		LeviedDutyFeeTax	0..1	The tax applicable to the Configure To Order Line Item.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Configure To Order Line Item.	
Attribute	parentLineItemNumber	positiveInteger	0..1	The number of line item containing information about the parent of the current item. It allows establishing hierarchical link between the two items.	WR 14-000021 WR 14-000044
Attribute	requestedQuantity	Quantity	1..1	The quantity which has been requested.	
Attribute	lineItemActionCode	LineItemActionCode	0..1	Provides the activity required by the recipient on the line item of this order line item.	
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.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
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	baseItemUnitPrice	Amount	0..1	Provides the base item unit price.	
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	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110

4.3. Configure To Option

Class Diagram



GDD Report

The content of the ConfigureToOption class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:ConfigureToOption

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
ConfigureToOption				Specify the identification for each of the options of the configurable item, its value, quantity and price.	
Association	optionTradeItemIdentification	TradeItemIdentification	1..1	The trade item associated with this configure to option.	
Association		SubConfigureToOption	0..*	A sub-option associated with a configure to option.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	optionValue	string	1..1	The value that the buyer has chosen for the Configure To Option.	
Attribute	requestedOptionQuantity	Quantity	1..1	The number of units that the buyer has ordered of the Configure To Option.	
Attribute	optionUnitPrice	Amount	0..1	The unit price associated with the configure to option.	
SubConfigureToOption				Specify the identification for each of the sub options of the option of the configurable item and its value.	
Association	subOptionTradeItemIdentification	TradeItemIdentification	1..1	The trade item associated with this sub configure to option.	
Association		SubConfigureToOption	0..*	Another (more detailed) sub option contained within the sub option.	
Attribute	optionValue	string	1..1	The value that the buyer has chosen for the Configure To Option.	



Note: Reference Shared Common Library Business Message (BMS) Release 3.2.0 and eCom Domain Common Library Business Message (BMS) Release 3.2.0 for all common information.

4.4. Code Lists



Note: Refer to the Global Data Dictionary (GDD) for the code values.

Class	Codelist	Referenced in
ConfigureToOrder	OrderInstructionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OrderInstructionCode
ConfigureToOrder	OrderTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:OrderTypeCode
ConfigureToOrderLineItem	LineItemActionCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:LineItemActionCode

5. Business Message Examples

5.1. Example 1

This is an example of the Configure To Order message used for **furniture products**.

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
0005280048346	Seller
5412345000037	Ship to

The order identification number is CTO4454, and the order is placed on 4th of July 2007 at 11:00 AM.

No acknowledgement of receipt is required and the goods are not free from tax.

The Buyer orders 1 sofa (GTIN 00052800483200), a trade item identified by the Buyer as 11-212. The price of the base unit is 500 USD, and the total including all options is 1000 USD.

The following options are required:

The primary fabric (GTIN: 00614141006601), which the Seller has assigned the trade item identification of 50579L44, is velvet (option value 456abc). The cost for this option is 250 USD.

The secondary fabric (GTIN: 00614141005501), which the Seller has assigned the trade item identification of 20295L12, is soft velvet (option value of 09884). This option has 4 suboptions:

- The seat cushion (option value 98098, GTIN: 00614141004401, identifying the placement, which has been assigned the trade item identification of 9987V45 by the Seller).
- The orientation (option value: Railroad, GTIN 00614141003301, identifying the orientation, which has been assigned the trade item identification 54309854 by the Seller)
- Customer owned material (option value: True, GTIN 00614141002201, identifying the fact that the material is owned by the customer, which has been assigned the trade item identification 809854 by the Seller)
- Return to customer (option value: Return to Customer, GTIN 00614141001101, indicating excess material instruction, which has been assigned the trade item identification 85245 by the Seller).

Message Example 1

Attribute	Value
ConfigureToOrder	
orderTypeCode	220
isApplicationReceiptAcknowledgementRequired	FALSE
isOrderFreeOfExciseTaxDuty	FALSE
Document	
creationDateTime	2007-07-04 11:00
documentStatusCode	ORIGINAL
Entity Identification (+orderIdentification)	
entityIdentification	CTO4454
PartyIdentification (+contentOwner)	
gln	5412345000013
OrderPartyInformation	
TransactionalParty (+seller)	
gln	0005280048346
TransactionalParty (+buyer)	
gln	5412345000013
OrderLogisticalInformation	
TransactionalParty (+shipFrom)	
gln	0005280048346
TransactionalParty (+shipTo)	
gln	5412345000037
TransactionalParty (+inventoryLocation)	
gln	0005280048346
ConfigureToOrderLineItem	
lineItemNumber	1
requestedQuantity	1
netPrice	1000 USD
baseItemUnitPrice	500 USD
TransactionalTradeItem	
gtin	00052800483200
additionalTradeItemClassification	11-212
(additionalTradeItemIdentificationTypeCode)	BUYER_ASSIGNED
tradeItemQuantity	1
ConfigureToOption	
optionValue	456abc
requestedOptionQuantity	1
optionUnitPrice	250 USD
TradeItemIdentification (+optionTradeItemIdentification)	

Attribute	Value
gtin additionalTradeltemClassification (additionalTradeltemIdentificationTypeCode)	00614141006601 50579L44 SELLER_ASSIGNED
ConfigureToOption	
optionValue	09884
requestedOptionQuantity	1
optionUnitPrice	250 USD
TradeltemIdentification (+optionTradeltemIdentification)	
gtin additionalTradeltemIdentification (additionalTradeltemIdentificationTypeCode)	00614141005501 20295L12 VENDOR_ASSIGNED
SubConfigureToOption	
optionValue	98098
TradeltemIdentification (+subOptionTradeltemIdentification)	
gtin additionalTradeltemIdentification (additionalTradeltemIdentificationTypeCode)	00614141004401 9987V45 SELLER_ASSIGNED
SubConfigureToOption	
optionValue	Railroad
TradeltemIdentification (+subOptionTradeltemIdentification)	
gtin additionalTradeltemIdentification (additionalTradeltemIdentificationTypeCode)	00614141003301 54309854 SELLER_ASSIGNED
SubConfigureToOption	
optionValue	True
TradeltemIdentification (+subOptionTradeltemIdentification)	
gtin additionalTradeltemIdentification (additionalTradeltemIdentificationTypeCode)	00614141002201 809854 SELLER_ASSIGNED
SubConfigureToOption	
optionValue	Return to Customer
TradeltemIdentification (+subOptionTradeltemIdentification)	
gtin additionalTradeltemIdentification (additionalTradeltemIdentificationTypeCode)	00614141001101 85245 SELLER_ASSIGNED

5.2. Example 2

This is an example of the Configure To Order message used for **automotive products**.

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
0005280048346	Seller
5412345000037	Ship to

The order identification number is CTO4444, and the order is placed on 4th of July 2007 at 11:00 AM.

No acknowledgement of receipt is required and the goods are not free from tax.

The Buyer orders 1 seat (GTIN 84365183905453). The price of the base unit is 20000 EUR, but the total including all options is 25000 EUR.

The following options are required:

The primary seat cover (GTIN: 00514141006604), which the Seller has assigned the trade item identification of 88098L, is leather (option value 786876). The cost for this option is 2000 USD.

This option has 1 sub option:

- Protection (option value: True, GTIN: 00333141006601, identifying the protection, which has been assigned the trade item identification 9098905 by the Seller).

The second option is the exterior colour (option value: 8797, indicating White, GTIN: 00333333006600, identifying the exterior colour, which has been assigned the trade item identification of 20295L12 by the Seller).

This option has 1 sub option:

- The finish (option value: Perlized, GTIN 00848141006601, identifying the finish, which has been assigned the trade item identification 84365183905422 by the Seller)

Message Example 2

Attribute	Value
ConfigureToOrder	
orderTypeCode	220
isApplicationReceiptAcknowledgementRequired	FALSE
isOrderFreeOfExciseTaxDuty	FALSE
Document	
creationDateTime	2007-07-04 11:00
documentStatusCode	ORIGINAL
Entity Identification (+orderIdentification)	
entityIdentification	CTO4444
PartyIdentification (+contentOwner)	
gln	5412345000013
OrderPartyInformation	
TransactionalParty (+seller)	
gln	0005280048346
TransactionalParty (+buyer)	
gln	5412345000013

Attribute	Value
OrderLogisticalInformation	
TransactionalParty (+shipFrom)	
gln	0005280048346
TransactionalParty (+shipTo)	
gln	5412345000037
TransactionalParty (+inventoryLocation)	
gln	0005280048346
ConfigureToOrderLineItem	
lineItemNumber	1
requestedQuantity	1
netPrice	25000 EUR
baseItemUnitPrice	20000 EUR
TransactionalTradeItem	
gtin tradeItemQuantity	84365183905453 1
ConfigureToOption	
optionValue	786876
requestedOptionQuantity	1
optionUnitPrice	2000 EUR
TradeItemIdentification (+optionTradeItemIdentification)	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00514141006604 88098L SELLER_ASSIGNED
SubConfigureToOption	
optionValue	True
TradeItemIdentification (+subOptionTradeItemIdentification)	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00333141006601 9098905 SELLER_ASSIGNED
ConfigureToOption	
optionValue	8797
requestedOptionQuantity	1
optionUnitPrice	3000 EUR
TradeItemIdentification (+optionTradeItemIdentification)	
gtin additionalTradeItemIdentification	00333333006600 20295L12

Attribute	Value
(additionalTradeItemIdentificationTypeCode)	SELLER_ASSIGNED
SubConfigureToOption	
optionValue	Perlized
TradeItemIdentification (+subOptionTradeItemIdentification)	
gtin	00848141006600
additionalTradeItemIdentification	84365183905422
(additionalTradeItemIdentificationTypeCode)	SELLER_ASSIGNED

6. Implementation Considerations

6.1. User Guide

The Functional User Guide contains more information about the structure and content of the message:
http://www.gs1.org/docs/ecom/xml/3/3.2/eCom-Trade_messages.html#ConfigureToOrder

6.2. Message Specific Considerations

Not Applicable

7. Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: <http://wr.gs1.org>. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.



Note: WRs submitted earlier than February 2012 should be searched in Old Change Requests.

7.1. BMS Release 3.0

Change	BSD Version	Associated CR Number
<p>Added name, address and contact information for all parties identified.</p> <p>Added indicator for purchase order type at header level</p> <p>Added a free text note field at both header and line item level</p> <p>Updated BMS template to 1.9</p> <p>Updated Sections GDD Report, Class Diagrams and Test Data.</p> <p>After Peer review:</p> <p>Included the code lists and enumerations and referenced where they can be found (eCom or Shared Common).</p> <p>The version of the document changed to 1.0.0.</p> <p>Document change history wiped clean except for the latest version.</p> <p>In context, Geopolitical set to "All" instead of "Global".</p> <p>In GDD report, added missing definitions for "orderTypeCode" and "orderInstructionCode".</p> <p>Random order issue in GDD Report fixed.</p> <p>Summary of Changes wiped clean except for the version for release 3.0.</p>	Issue 1.0.0	CR 09-201 CR 09-259 CR 09-236F
<p>After TSD Development:</p> <p>pages 23-26, ConfigureToOption and SubConfigureToOption have attributes of type TradeItemIdentification. However, TradeItemIdentification does not have additionalTradeItemClassificationCodeListCode. Instead, it has AdditionalTradeItemIdentificationType, which in turn has additionalTradeItemIdentificationTypeCode. additionalTradeItemClassificationCodeListCode belongs to AdditionalTradeItemClassificationCodeType. Also, there is no tradeItemQuantity attribute in TradeItemIdentification. Updated example to reflect this.</p>	Issue 1.0.0	Not Applicable
<p>For Publication</p> <p>Added Copyright R in GS1 Logo</p> <p>Changed Status to Approved</p> <p>Removed year reference in footer copyright statement</p> <p>Replaced Section 10 with updated AG Principles</p>	1.0.0	Not Applicable

7.2. BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.3. BMS Release 3.2

Change	Associated WR
<p>Added Attribute Value Pair at the root, line item and sub line item levels</p> <div> <p>class ConfigureToOrder - maintenance view</p> <pre> classDiagram class ConfigureToOrder { <<root>> +orderTypeCode :OrderTypeCode [0..1] +isApplicationReceiptAcknowledgementRequired :boolean [0..1] +orderInstructionCode :OrderInstructionCode [0..*] +additionalOrderInstruction :Description1000 [0..1] +isOrderFreeOfExciseTaxDuty :boolean [0..1] +note :Description500 [0..1] } class maintenance { Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110) } </pre> </div>	14-000110
<ul style="list-style-type: none"> Added a reference to parent line number to all Lineltem classes, to support hierarchical items (WRs 14-021 & 14-044) Added Attribute Value Pair at the root, line item and sub line item levels (WR 14-110) <div> <p>class ConfigureToOrderLineltem - maintenance view</p> <pre> classDiagram class ConfigureToOrderLineltem { <<>> +lineltemNumber :positiveInteger +parentLineltemNumber :positiveInteger [0..1] +requestedQuantity :Quantity +lineltemActionCode :LineltemActionCode [0..1] +additionalOrderLineInstruction :Description200 [0..1] +netAmount :Amount [0..1] +netPrice :Amount [0..1] +baseItemUnitPrice :Amount [0..1] +note :Description500 [0..1] +«association» avpList :Ecom_AttributeValuePairList [0..1] } class maintenance { Change: (Verified) 3.2 added +avpList (WR 14-110) Change: (Verified) 3.2 added +parentLineltemNumber (WR 14-021 & 14-044) } </pre> </div>	14-000110 14-000021 14-000044

8. Appendices

Not Applicable

9. Acknowledgements

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

9.1.1. Work Group

Function	Name	Company / organisation
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Member	Bemrose, Jonathan	R&R Ice Cream
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Function	Name	Company / organisation
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9.1.2. Development Team Members

Function	Name	Organisation
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