



# Business Message Standard (BMS) Configure to Order

BMS Release: 2.5.0, BRG Name: eCom BRG

*Issue 0.2.1, 06-Feb-2009*



## Document Summary

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20-Aug-2008	John RYU, GS1 Global Office	08-000209
13- Jul -2007	John RYU, GS1 Global Office	07-000285
21- Mar -2007	Stef SPAAN, GS1 Netherlands	07-000098
12- Mar -2007	Stef SPAAN, GS1 Netherlands	07-000077
21- Aug -2002	Furnish Net	02-000179

## Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
BRD Configure to Order	01- Nov-2003	0.1.5
BMS Common Library	Dec-2008	2.5
BRAD For Multi Shipment Order Receipt Response and Excise Tax Free	6-Jun-2007	0.0.4

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
15-Mar-2005	0.0.1	Maria Victoria CARO	Creation of the document	Migration of the BRD Configure to Order approved by Order BRG and ITRG for publication December 2004.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
7-Apr-2005	0.0.2	John RYU	Updated BSD for harmonization	<ul style="list-style-type: none"> <li>■ Pasted Related Requirements Section</li> <li>■ Pasted GDD Platform</li> <li>■ Harmonized Class Diagram</li> <li>■ Updated Business Document section 1.6 to reflect the enforcement of GTIN and removal of the alternate trade item identification as part of Version 2.0.1 release</li> </ul>	Model P4CL: 6352  BSD P4CL: 6364
10-Jul-2007	0.1.0	John RYU	Upgrade for BMS Version 2.4 Release  Submitted for Peer Review	Note in Summary of Changes	Model P4CL: 9617  BSD P4CL: 9618
18-Jul-2007	0.1.1	John RYU	eCom BRG Motioned for TSD Development	Noted in Summary of Changes	BSD P4CL: 9666
24-Aug-2007	0.1.2	John RYU	Included in TSD Packet Review	Public Review	BSD P4CL: 9802
11-Sep-2007	0.1.3	John RYU	Based on Public Review Resolution  Initiate eBallot Period	Noted in Summary of Changes	BSD P4CL: 9933
25-Sep-2007	0.1.4	John RYU	eCom BRG eBallot Approved	Updated BMS to Approved	BSD P4CL: 9998
24-Oct-2008	0.2.0	John RYU	BMS Release 2.5.0	Noted in Summary of Changes	MDL:10644 BSD:10645
01-Dec -2008	0.2.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	NOT APPLICABLE
06-Feb-2009	Issue 0.2.1	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

There is a need to build the business requirements to provide support for configurable items on a purchase order. A configurable item is one that starts with a single structure, but to which a large variety of options may be added in a variety of combinations. 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.

The current GS1 XML Standards documents don't permit:

- Ordering a base item with a customer specific combination of options

This scenario applies to many manufacturers and retailers. For manufacturers and retailers who specialize in upholstered furniture, it can apply to the vast majority of their business. For these companies, any model that does not support configured product is not an accurate business model, and any implementation from a model that does not support configured product is not usable. As such, the business benefits of this request are the ability to do business at all.

## 1.2. Objective

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

The objective is to upgrade the GS1 Order Message standard, according to the requirements of the referenced change request in the document summary.

## 1.3. Audience

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

## 1.4. References

Reference Name	Description
BRD Configure to Order	BRD Version 0.1.5
BMS Common Library	BMS Release 2.5.0
Business Requirements Analysis Document (BRAD) For Multi Shipment Order Receipt Response and Excise Tax Free	BRAD Version 0.0.4

## 1.5. Acknowledgements

### 1.5.1. eCom BRG

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

## 2. Business Context

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

## 3. Additional Technical Requirements Analysis

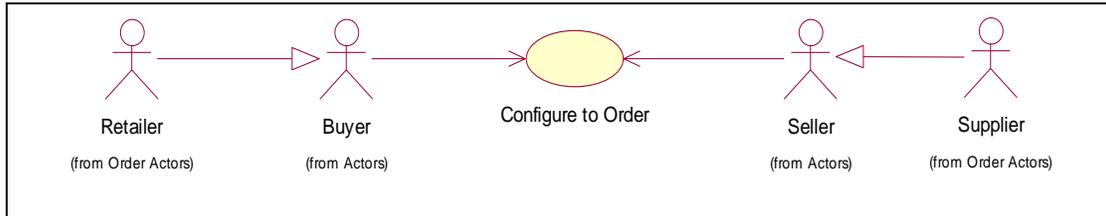
Not Applicable

### 3.1. Technical Requirements

Not Applicable

## 4. Business Transaction View

### 4.1. Business Transaction Use Case Diagram



### 4.2. Use Case Description

<b>Use Case ID</b>	UC -1
<b>Use Case Name</b>	Ordering of Configurable Items specifying ship to location
<b>Use Case Description</b>	This Use Case provides the ability for a buyer can create one order for one or more configurable items. One order can contain order lines for configurable items as well as order lines for stock items.
<b>Actors (Goal)</b>	Buyer, Seller, Consumer
<b>Performance Goals</b>	Not Applicable
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> <li>■ The Buyer and Seller agree that each can produce and process an order with configurable items.</li> <li>■ The Buyer and Seller agree on whether an Order Response message is required, as an option based on the pre-determined trading partner agreements.</li> </ul>
<b>Post conditions</b>	The Seller has received the Configure to Order sent by the Buyer

<b>Scenario</b>	<b>Begins when...</b> An end-consumer walks into a retail store and buys a configurable item (e.g. sofa). <b>Continues with...</b>		
	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
	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.
	<b>Ends when...</b> the Seller receives the Configure to Order for processing		
<b>Alternative Scenario</b>	Not Applicable		
<b>Related Requirements</b>	Not Applicable		
<b>Related Rules</b>	Not Applicable		

### 4.3. Business Transaction Activity Diagram

Not Applicable

### 4.4. Business Transaction Sequence Diagram

Not Applicable

## 5. Information Model (Including GDD Report)

### 5.1. GDD Configure To Order

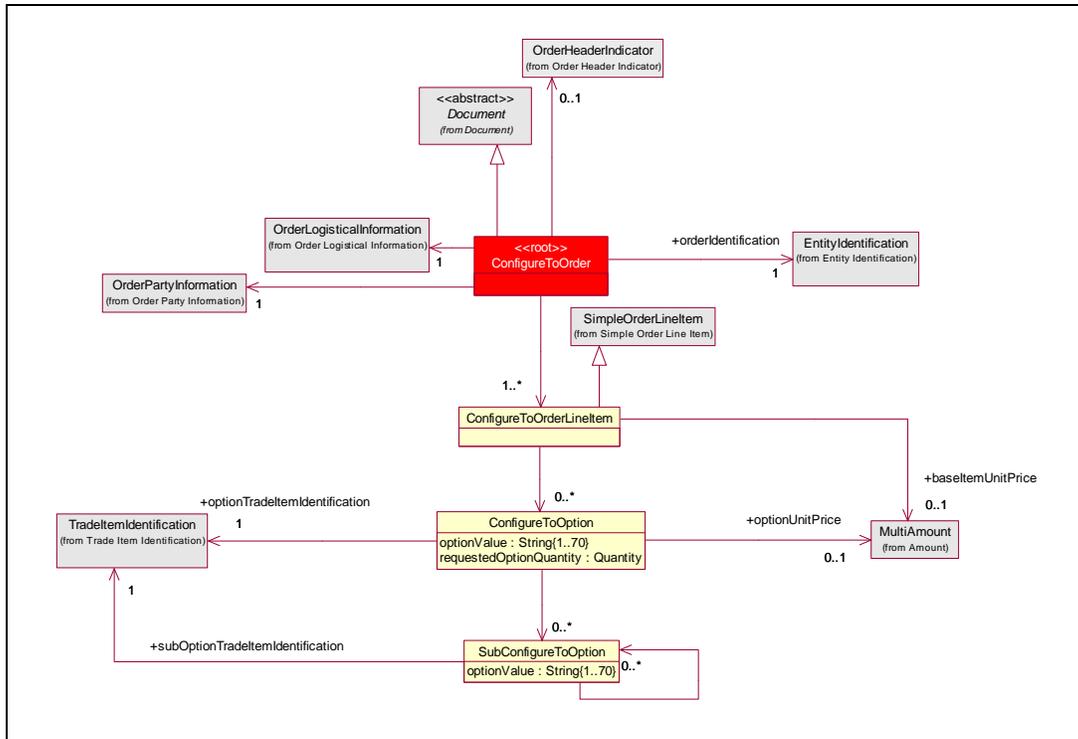
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
ConfigureToOption				Configure To_ Option_ Purchase Order Sub Line. Details	Specify the identification for each of the options of the configurable item, its value, quantity and price.			BRD Title: Configure to Order BRD Version 0.1.5	
	optionValue			Configure To_ Option_ Purchase Order Sub Line.Option Value.Text	The value that the buyer has chosen for the Configure To Option.	1..1	Text. Content	BRD Title: Configure to Order BRD Version 0.1.5	minLength='1' maxLength='70'
	requestedOptionQuantity			Configure To_ Option_ Purchase Order Sub Line. Requested_Quantity. Quantity	the number of units that the buyer has ordered of the Configure To Option	1..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	BRD Title: Configure to Order BRD Version 0.1.5	No Restrictions
		optionUnitPrice	MultiAmount	Configure To_ Option_ Purchase Order Sub Line. Option Unit Price. Multi-currency Amount	The unit price associated with the configure to option.	0..1		BRD Title: Configure to Order BRD Version 0.1.5	
			SubConfigureToOption	Configure To_ Option_ Purchase Order Sub Line. Association. Configure To_ Sub Option_ Purchase Order Sub Line	A sub-option associated with a configure to option.	0..*		BRD Title: Configure to Order BRD Version 0.1.5	
		optionTradeItemIdentification	TradeItemIdentification	Configure To_ Option_ Purchase Order Sub Line. Option Trade Item Identification. Trade Item Identification	The trade item associated with this configure to option.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
ConfigureToOrder				Configure To_ Purchase Order. Details	The Configure to Order provides the ability for a buyer to order			BRD Title: Configure to Order BRD Version 0.1.5	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
					configurable items, that starts with a base item, but to which a large variety of options may be added in a variety of combinations.				
			ConfigureToOrderLineItem	Configure To_ Purchase Order. Line Item. Configure To_ Purchase Order Line	This information on ConfigureToOrderLineItem for ConfigureToOrder.	1..*		BRD Title: Configure to Order BRD Version 0.1.5	
			Document	Configure To_ Purchase Order. Inheritance. Electronic_ Document	This information on Document for ConfigureToOrder.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
		orderIdentification	EntityIdentification	Configure To_ Purchase Order. Order Identification_ Association. Entity Identification	Provides the unique identification for the configure to order.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
			OrderHeaderIndicator	Configure To_ Purchase Order. Order Identification_ Association Order Header Indicator	Provides the order header indicator information.	0..1		CR 8-209 [BRAD For Multi Shipment Order Receipt Response and Excise Tax Free] {BR1,2}	
			OrderLogisticalInformation	Configure To_ Purchase Order. Association. Order_ Logistical Information Group	This information on OrderLogisticalInformation for ConfigureToOrder.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
			OrderPartyInformation	Configure To_ Purchase Order. Association. Order_ Party Group	Party Information associated with this Configure to Order.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
ConfigureToOrderLineItem				Configure To_ Purchase Order Line. Details	Specify the information related to each line item, and each Configure to Order will contain one or more line items.			BRD Title: Configure to Order BRD Version 0.1.5	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
			ConfigureToOption	Configure To_ Purchase Order Line. Association. Configure To_ Option_ Purchase Order Sub Line	A configure to option associated with a configure to order.	0..*		BRD Title: Configure to Order BRD Version 0.1.5	
		baseItemUnitPrice	MultiAmount	Configure To_ Purchase Order Line. Base Item Unit Price_ Price. Multi-currency Amount	Provides the base item unit price.	0..1		BRD Title: Configure to Order BRD Version 0.1.5	
			SimpleOrderLineItem	Configure To_ Purchase Order Line. Inheritance. Simple_ Purchase Order Line	Provides the order line item details.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	
SubConfigureToOption				Configure To_ Sub Option_ Purchase Order Sub Line. Details	Specify the identification for each of the sub options of the option of the configurable item and its value.			BRD Title: Configure to Order BRD Version 0.1.5	
	optionValue			Configure To_ Sub Option_ Purchase Order Sub Line.Option Value.Text	The value that the buyer has chosen for the Configure To Option.	1..1	Text. Content	BRD Title: Configure to Order BRD Version 0.1.5	minLength='1' maxLength='70'
			SubConfigureToOption	Configure To_ Sub Option_ Purchase Order Sub Line. Sub Option Trade Item Identification_ Association. Configure To_ Sub Option_ Purchase Order Sub Line. Sub Option Trade Item Identification	A purchase order subline associated with a purchase order subline	0..*		BRD Title: Configure to Order BRD Version 0.1.5	
		subOptionTradeItemIdentification	TradeItemIdentification	Configure To_ Sub Option_ Purchase Order Sub Line. Sub Option Trade Item Identification_ Association. Trade Item Identification	Provides the item identification for the SubOption Trade Item.	1..1		BRD Title: Configure to Order BRD Version 0.1.5	

## 5.2. Class Diagrams

Figure 5-1 Class Diagram: Configure To Order



- ✔ **Note:** Reference Common Library Business Message (BMS) Release 2.5.0 for all common information.

## 5.3. Code Lists

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

## 6. Business Document Example

### EXAMPLE 1 ORDER LINE - FURNITURE LINE ITEM

Configure To Order

Order Identification: **CTO4454**

Document

Document Status: **ORIGINAL**

Creation Date Time: **2007-07-04 11:00**

Order Header Indicator

Is Application Receipt Acknowledgement Required: **FALSE**

Is Order Free of Excise Tax Duty: **FALSE**

## BASE ITEM

Line Number: 1

(Base)Trade Item Identification (GTIN): 00052800483200 (Sofa)

(Base) Trade Item Identification: 11-212 (Sofa)

Additional Trade Item Identification List: BUYER\_ASSIGNED

Quantity: 1

Net Price (Total Unit Price): 1000 USD

Base Unit Price: 500 USD

## ITEM CONFIGURATION SECTION

Option Trade Item Identification (GTIN): 00614141006601(Primary Fabric)

Option Trade Item Identification: 50579L44 (Primary Fabric)

Additional Trade Item Identification List: SELLER\_ASSIGNED

Quantity: 1

Option Unit Price: 250 USD

Option Value: 456abc (identify specific fabric as Velvet)

Option Trade Item Identification (GTIN): 00614141005501 (Secondary Fabric)

Option Trade Item Identification: 20295L12 (Secondary Fabric)

Additional Trade Item Identification List: SELLER\_ASSIGNED

Quantity: 1

Option Unit Price: 250 USD

Option Value: 09884 (identify specific fabric)

Sub Option Trade Item Identification (GTIN): 00614141004401 (Placement)

Sub Option Trade Item Identification: 9987V45 (Placement)

Additional Trade Item Identification List: SELLER\_ASSIGNED

Option Value: 98098 (Seat Cushion)

Sub Option Trade Item Identification (GTIN): 00614141003301 (Orientation) Sub Option Trade Item Identification: 54309854 (Orientation)

Additional Trade Item Identification List: SELLER\_ASSIGNED

Option Value: Railroad

Sub Option Trade Item Identification (GTIN): 00614141002201 Customer Owned Material)

Sub Option Trade Item Identification: 809854 (Customer Owned Material)

Additional Trade Item Identification List: **SELLER\_ASSIGNED**

Option Value: **True**

Sub Option Trade Item Identification (GTIN): **00614141001101 (Excess Material instruction)**

Sub Option Trade Item Identification: **85245 (Excess Material instruction)**

Alternative Trade Item Identification List: **SELLER\_ASSIGNED**

Option Value: Return to Customer

### **EXAMPLE 2 ORDER LINE – AUTOMOBILE LINE ITEM**

Configure To Order

Order Identification: **CTO4444**

Document

Document Status: **ORIGINAL**

Creation Date Time: **2007-07-04 11:00**

Order Header Indicator

Is Application Receipt Acknowledgement Required: **FALSE**

Is Order Free of Excise Tax Duty: **FALSE**

BASE ITEM

Line Number: **1**

(Base) Item Identification: **8436518390545**

Quantity: **1**

Net Price (Total Unit Price): **25.000**

Base Unit Price: **20.000**

ITEM CONFIGURATION SECTION

Option Trade Item Identification (GTIN): **00514141006601(Primary Seat Cover)**

Option Trade Item Identification: **88098L (Primary Seat Cover)**

Additional Trade Item Identification List: **SELLER\_ASSIGNED**

Quantity: **1**

Option Unit Price: **2.000 EUR**

Option Value: **786876 (Leather)**

Sub Option Trade Item Identification (GTIN): **00333141006601 (Protection)**

Sub Option Trade Item Identification: **9098905 (Protection)**

Additional Trade Item Identification List: **SELLER\_ASSIGNED**

Option Value: **True**

Option Trade Item Identification (GTIN): **00333333006601 Exterior Color**

Option Trade Item Identification: **20295L12 (Exterior Color)**

Additional Trade Item Identification List: **SELLER\_ASSIGNED**

Quantity: **1**

Option Unit Price: **3.000 EUR**

Option Value: **8797 (White)**

Sub Option Trade Item Identification (GTIN): **00848141006601 (Finish)**

Sub Option Trade Item Identification: **8436518393802 (Finish)**

Option Value: **Perlized**

## 7. Implementation Considerations

Not Applicable

## 8. Testing

Not Applicable

### 8.1. Pass / Fail Criteria

Not Applicable

### 8.2. Test Data

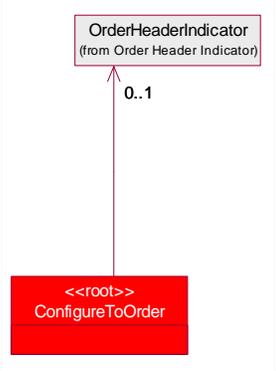
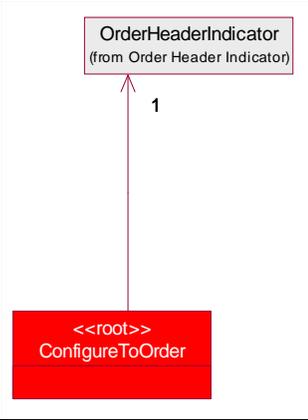
Not Applicable

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
Upgraded BMS Document to BMS Template Version 1.8 and upgraded for BMS Release 2.4.0 Class Diagram <ul style="list-style-type: none"> <li>■ Added mandatory (1..1) association from ConfigureToOrder to OrderHeaderIndicator</li> <li>■ Reference SimpleOrderLineItem which was enhanced for BMS Release 2.3.0</li> <li>■ Referenced OrderLogisticalInformation which was enhanced for BMS Release 2.3.0</li> </ul> Changed Data Types Class ConfigureToOption <ul style="list-style-type: none"> <li>■ From: optionValue:String</li> <li>■ TO : optionValue:String{1..70}</li> <li>■ From: requestedOptionQuantity:Float</li> <li>■ TO : requestedOptionQuantity:Quantity</li> </ul> Class SubConfigureToOption <ul style="list-style-type: none"> <li>■ From: optionValue:String</li> <li>■ TO : optionValue:String{1..70}</li> </ul> Sample Data <ul style="list-style-type: none"> <li>■ Updated with new class diagram additions.</li> </ul>	0.1.0	CR 07-000285 CR 07-000077 CR 07-000098
Peer Review incorporated 9638 eCom BRG motioned for TSD Development	0.1.1	
For Public Review	0.1.2	Not Applicable
Based on Public Review Updated sample data to be consistent with Boolean indicator. Order Header Indicator Is Application Receipt Acknowledgement Required: <b>FALSE</b> Is Order Free of Excise Tax Duty: <b>FALSE</b>	0.1.3	Not Applicable
eCom BRG eBallot Approved 20070925 BMS Updated to approved	0.1.4	Not Applicable
(8-209) Changed multiplicity from (1..1) TO (0..1) for backward compatibility rules. ConfigureToOrder-→OrderHeaderIndicator	0.2.0	8-209

Change	BSD Version	Associated CR Number
<p><b>BMS Configure to Order 2.5.0</b></p>  <p><b>BMS Configure to Order 2.4.0</b></p> 		
For BMS Release 2.5.0 <ul style="list-style-type: none"> <li>• Prep document for public review on 01-Dec-2008</li> <li>• Remove Code Lists &amp; Add notes to reference Common Library BMS for Code Lists and Common Information.</li> </ul>	0.2.1	Not Applicable
For BMS Release 2.5.0 <ul style="list-style-type: none"> <li>• eBallot Approved, Updated BMS to 'Approved' Status</li> <li>• Update version to 'Issue'</li> </ul>	Issue 0.2.1	Not Applicable