



# **Configure to Order Business Message Standard (BMS)**

*Release 3.1*

*1-May-2013, Issue 1*

## Document Summary

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Document Version	Issue 1, 1-May-2013
Work Group Name	eCom SMG
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## Change Request Reference

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05-Nov-2009	GS1 Australia	09-259
15 Oct 2009	GS1 Australia, GS1 Germany, GS1 Netherlands	09-236
05-May-2009	Marcus Moritz, GS1 Germany	09-102
06-May-2009	Stef Spaan, GS1 Netherlands	09-000134
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
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
6-Jan-2012	BMS 3.0 - 1.0.0	John Ryu	BMS Release 3.0	Noted in summary of change section
1-May-2013	BMS 3.1 - issue 1	Coen Janssen	BMS Release 3.1	Noted in Summary of Changes

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# 1. Business Domain View

## 1.1. Problem Statement / Business Need

There is a need 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.

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.

## 1.2. Objective

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

- Configure to Order

## 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 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

## 1.5. Acknowledgements

### 1.5.1. Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
Member	Bemrose, Jonathan	R&R Ice Cream

Function	Name	Company / organisation
Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG
Member	Boikanyo, Rebone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.
Member	Chresta, Richard	GS1 Switzerland
Member	Cook, Don	Wal-Mart Stores, Inc.
Member	Cox, Marc	Philips Electronics N.V.
Member	Darnell, David	Systrends
Member	De Flou, Nele	GS1 Belgium & Luxembourg
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Member	Foerderer, Klaus	GS1 Germany
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Member	Krid, Anne-Claire	GS1 France
Member	Lanoué, Tom	General Mills, Inc.
Member	Laur, Rita	GS1 Canada
Member	Lenman, Mia	GS1 Sweden
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Member	Ng, Ella	GS1 Australia
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Member	Pelekies, Andreas	GS1 Germany
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Member	Przybilla, Christian	GS1 Germany
Member	Pujol, Xavier	GS1 Spain
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Member	Tan, Milton	GS1 Malaysia
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Member	Tyson, Betty	Knouse Foods Cooperative, Inc
Member	Van den Bergh, Senne	GS1 Belgium & Luxembourg
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Member	Veldhuis, Saskia	Procter & Gamble Co.
Member	Welch, Shan	GS1 UK
Member	Westerkamp, Jan	GS1 Netherlands
Member	Wilson, Mary	GS1 US
Member	Windsperger, Bekki	Best Buy Co., Inc.
Member	Yang, Shaopeng	GS1 China
Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

### 1.5.2. Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Champion	GS1 Global Office
Standards Content Lead	Coen Janssen	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Eric Kauz	GS1 Global Office

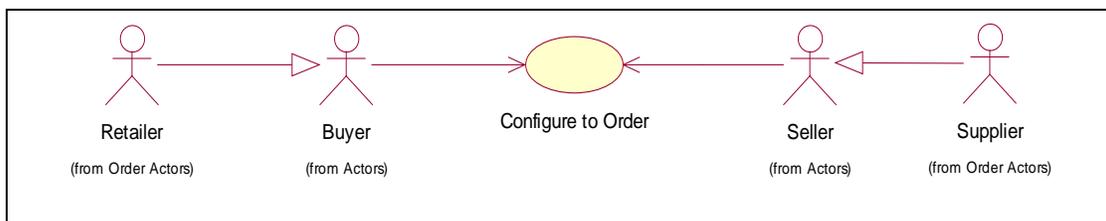
## 2. Business Context

Context Category	Value(s)
Industry	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

<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>	<p><b>Begins when...</b> An end-consumer walks into a retail store and buys a configurable item (e.g. sofa).</p> <p><b>Continues with...</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #003366; color: white;"> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">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 style="text-align: center;">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> </tbody> </table> <p><b>Ends when...</b> the Seller receives the Configure to Order for processing</p>	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.
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.								
<b>Alternative Scenario</b>	Not Applicable									
<b>Related Requirements</b>	Not Applicable									
<b>Related Rules</b>	Not Applicable									

### Activity Diagram

Not Applicable

### Sequence Diagram

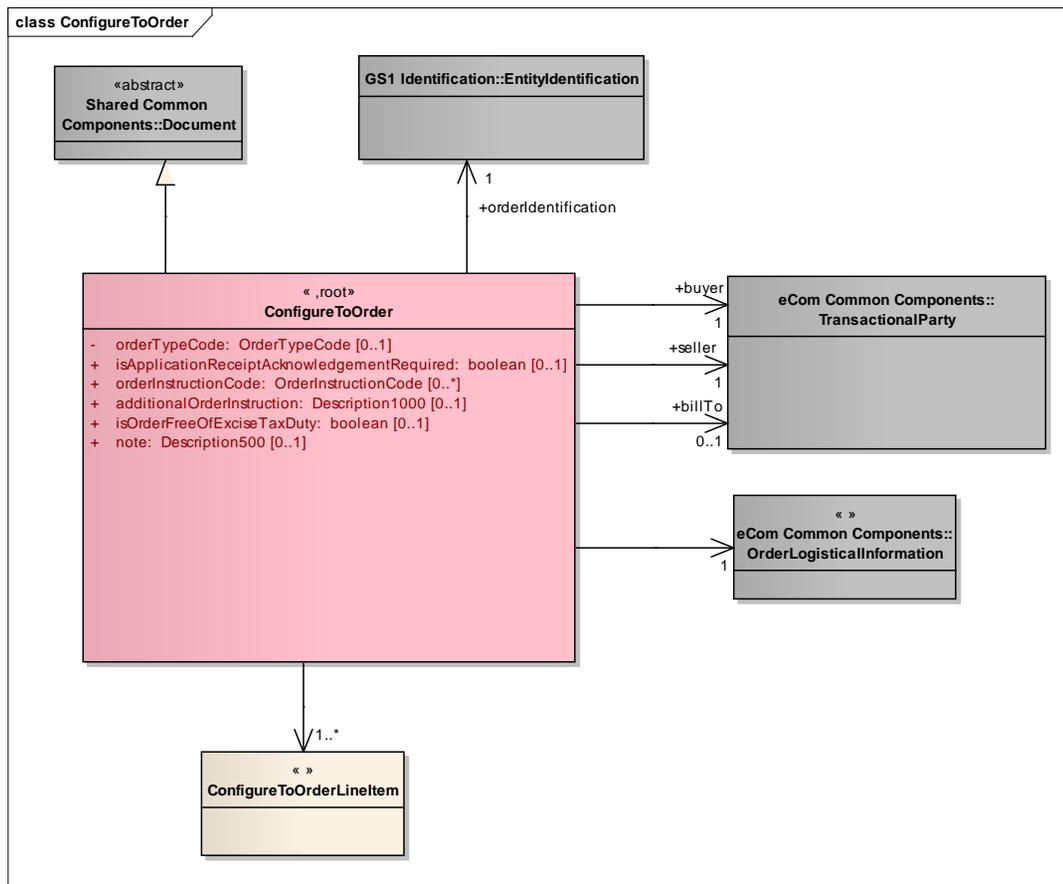
Not Applicable

## 4. Business Information View

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

### 4.1. Configure To Order

#### Class Diagram



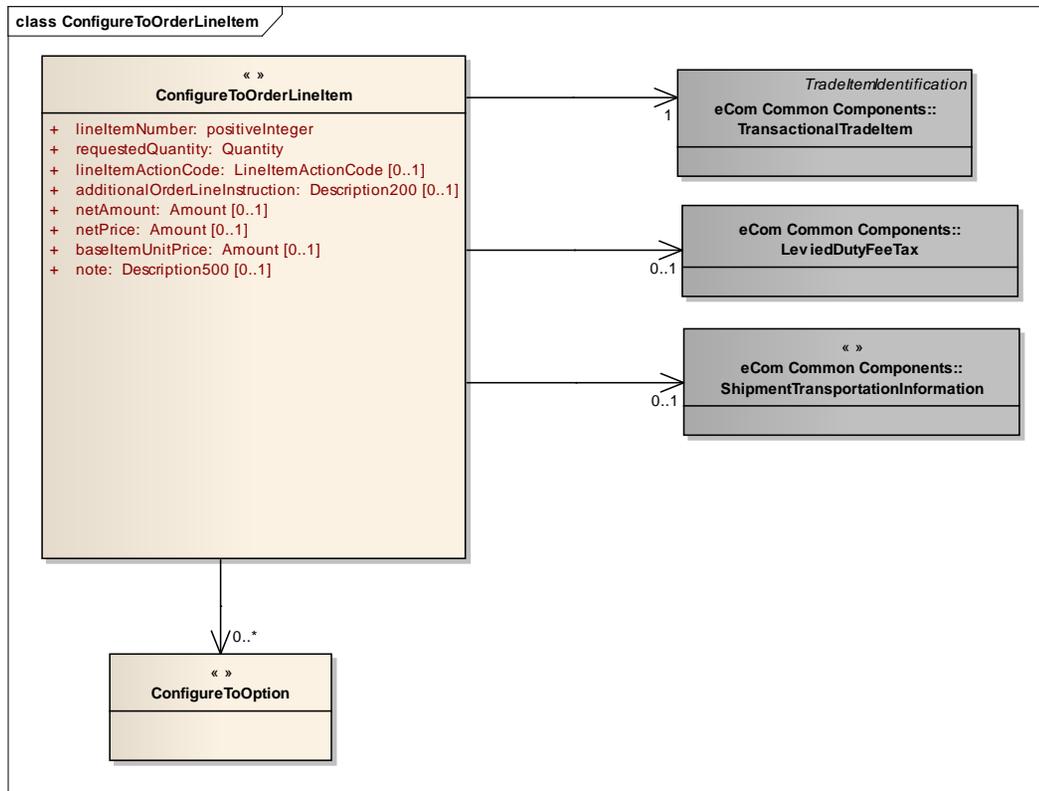
**GDD Report**

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	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	orderIdentification	EntityIdentification	1..1	Provides the unique identification for the Configure To Order.	
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		ConfigureToOrderLine Item	1..*	The line item details of the Configure To Order message.	
Association		OrderLogisticalInforma tion	1	Contains the information related with the dates and destinations of the goods or services.	
Generalization		Document		Contains the information related with the document in the Order.	
Attribute	orderInstructionCode	OrderInstructionCode	0..*	Provides special order conditions	BRAD CRQ.10-019
Attribute	additionalOrderInstruc tion	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	isApplicationReceiptA cknowledgementRequ ired	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.	
Attribute	isOrderFreeOfExcise TaxDuty	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.	

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Requirements
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	orderTypeCode	OrderTypeCode	0..1	Identifies the kind of purchase order, enabling the recipient of the order to determine the appropriate processing	BRAD CRQ.09.259

## 4.2. Configure To Order Line Item

### Class Diagram



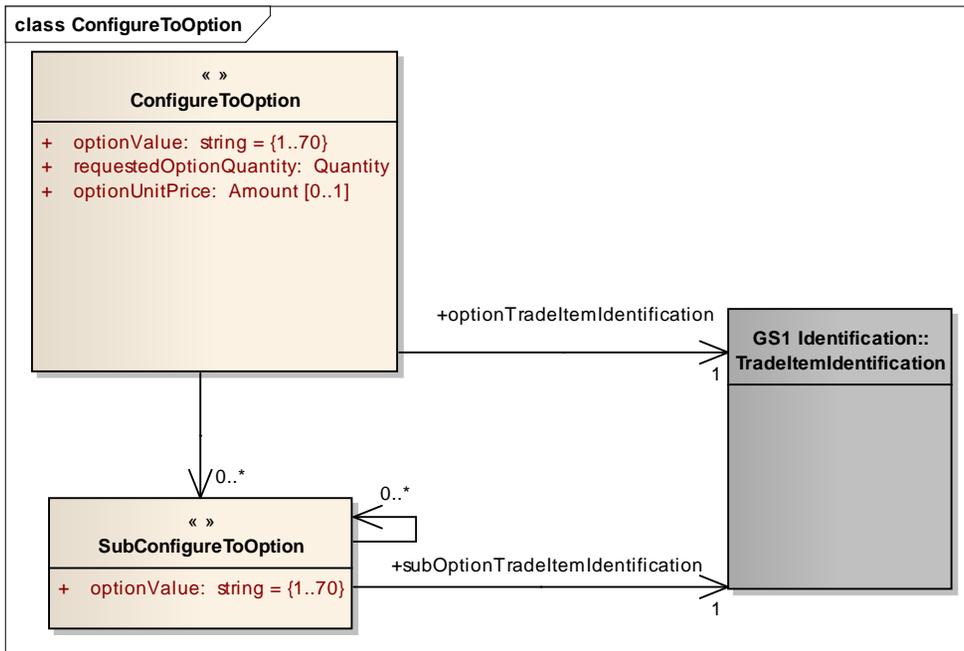
**GDD Report**

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		TransactionalTradeItem	1..1	The trade item associated to the Configure To Order Line Item.	
Association		ConfigureToOption	0..*	A configure to option associated with a Configure To Order.	
Association		LeviedDutyFeeTax	0..1	The tax applicable to the Configure To 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 Configure To Order Line Item.	
Attribute	requestedQuantity	Quantity	1..1	The quantity which has been requested.	
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.	
Attribute	baseItemUnitPrice	Amount	0..1	Provides the base item unit price.	
Attribute	lineItemActionCode	LineItemActionCode	0..1	Provides the activity required by the recipient on the line item of this order line item.	
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.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
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

### 4.3. Configure To Option

#### Class Diagram



#### GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
---------	------------------	---------------------------	--------------	------------	--------------

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	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.	
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	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.	

## 4.4. Code Lists



**Note:** Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for all Code Lists

Class	Codelist	Referenced in
ConfigureToOrder	OrderInstructionCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0
ConfigureToOrder	OrderTypeCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0
ConfigureToOrderLineItem	LineItemActionCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

## 5. Business Message Examples

### 5.1. Example 1 - Order Line – Furniture Line Item

A company orders on 2007-07-04 11 am, Order number CTO4454, furniture. No acknowledgement of receipt is required and the goods are not free from tax.

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

The following are the options they require:

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, has the 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).

ConfigureToOrder	
isApplicationReceiptAcknowledgementRequired	FALSE
isOrderFreeOfExciseTaxDuty	FALSE
<b>Document</b>	
creationDateTime	2007-07-04 11:00

<b>ConfigureToOrder</b>	
documentStatusCode	ORIGINAL
<b>Entity Identification (+orderIdentification)</b>	
entityIdentification	CTO4454
<b>ConfigureToOrderLineItem</b>	
lineItemNumber	1
requestedQuantity	1
netPrice	1000 USD
baseItemUnitPrice	500 USD
<b>TransactionalTradeItem</b>	
gtin additionalTradeItemClassification (additionalTradeItemIdentificationTypeCode) tradeItemQuantity	00052800483200 11-212 BUYER_ASSIGNED 1
<b>ConfigureToOption</b>	
optionValue	456abc
requestedOptionQuantity	1
optionUnitPrice	250 USD
<b>TradeItemIdentification(+optionTradeItemIdentification)</b>	
gtin additionalTradeItemClassification (additionalTradeItemIdentificationTypeCode)	00614141006601 50579L44 SELLER_ASSIGNED
<b>ConfigureToOption</b>	
optionValue	09884
requestedOptionQuantity	1
optionUnitPrice	250 USD
<b>TradeItemIdentification(+optionTradeItemIdentification)</b>	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00614141005501 20295L12 VENDOR_ASSIGNED
<b>SubConfigureToOption</b>	
optionValue	98098
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00614141004401 9987V45 SELLER_ASSIGNED
<b>SubConfigureToOption</b>	
optionValue	Railroad
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00614141003301 54309854 SELLER_ASSIGNED
<b>SubConfigureToOption</b>	

ConfigureToOrder	
optionValue	True
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00614141002201 809854 SELLER_ASSIGNED
<b>SubConfigureToOption</b>	
optionValue	Return to Customer
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	00614141001101 85245 SELLER_ASSIGNED

## 5.2. Example 2 Order Line – Automobile Line Item

A company orders automobile line items on 2007-07-04 11 am, Order number CTO4444. No acknowledgement of receipt is required and the goods are not free from tax.

They order 1 seat (GTIN 8436518390545). The price of the base unit is 20000 EUR, but the total including all options is 25000 EUR.

The following are the options they require:

The primary seat cover (GTIN: 00514141006601), 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: 003333330066001, 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 843651839802 by the seller)

ConfigureToOrder	
isApplicationReceiptAcknowledgementRequired	FALSE
isOrderFreeOfExciseTaxDuty	FALSE
<b>Document</b>	
creationDateTime	2007-07-04 11:00
documentStatusCode	ORIGINAL
<b>Entity Identification (+orderIdentification)</b>	
entityIdentification	CTO4444
<b>ConfigureToOrderLineItem</b>	
lineItemNumber	1

<b>ConfigureToOrder</b>	
requestedQuantity	1
netPrice	25000 EUR
baseItemUnitPrice	20000 EUR
<b>TransactionalTradeItem</b>	
gtin	8436518390545
tradeItemQuantity	1
<b>ConfigureToOption</b>	
optionValue	786876
requestedOptionQuantity	1
optionUnitPrice	2000 EUR
<b>TradeItemIdentification(+optionTradeItemIdentification)</b>	
gtin	00514141006601
additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	88098L SELLER_ASSIGNED
<b>SubConfigureToOption</b>	
optionValue	True
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin	00333141006601
additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	9098905 SELLER_ASSIGNED
<b>ConfigureToOption</b>	
optionValue	8797
requestedOptionQuantity	1
optionUnitPrice	3000 EUR
<b>TradeItemIdentification(+optionTradeItemIdentification)</b>	
gtin	00333333006601
additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	20295L12 SELLER_ASSIGNED
<b>SubConfigureToOption</b>	
optionValue	Perlized
<b>TradeItemIdentification(+subOptionTradeItemIdentification)</b>	
gtin	00848141006601
additionalTradeItemIdentification (additionalTradeItemIdentificationTypeCode)	8436518393802 SELLER_ASSIGNED

## 6. Implementation Considerations

Not Applicable

## 7. Appendices

Not Applicable

## 8. Summary of Changes

### 8.1. BMS Release 3.0

Change	BSD Version	Associated CR Number
Added name, address and contact information for all parties identified. Added indicator for purchase order type at header level Added a free text note field at both header and line item level Updated BMS template to 1.9 Updated Sections GDD Report, Class Diagrams and Test Data. <b>After Peer review:</b> Included the code lists and enumerations and referenced where they can be found (eCom or Shared Common). The version of the document changed to 1.0.0. Document change history wiped clean except for the latest version. In context, Geopolitical set to "All" instead of "Global". In GDD report, added missing definitions for "orderTypeCode" and "orderInstructionCode". Random order issue in GDD Report fixed. Summary of Changes wiped clean except for the version for release 3.0.	Issue 1.0.0	CR 09-201 CR 09-259 CR 09-236F
<b>After TSD Development:</b> 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.	Issue 1.0.0	Not Applicable
For Publication Added Copyright R in GS1 Logo Changed Status to Approved Removed year reference in footer copyright statement Replaced Section 10 with updated AG Principles	1.0.0	Not Applicable

### 8.2. BMS Release 3.1

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