

# **Business Message Standard (BMS)**

**for**

**Align\_Candidate\_Attributes/Office\_  
Supplies**

*(Process/Sub-process/Industry and/or Product/Geopolitical)*

**BRG: Align**

**BMS Release: 2.1**

**Version: 0.0.5**

*(r stands for revision number of a version)*

**Date: 12.07.2006**

*(dd.mm.cyy example 27.10.2004)*



### Change Request Reference

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### Business Requirements Document (BRAD) Reference

<b>BRAD Title:</b> N/A
<b>BRAD Date:</b>
<b>BRAD Version:</b>

<b>BRAD Title:</b>
<b>BRAD Date:</b>
<b>BRAD Version:</b>

### Document Summary

<b>Document Title:</b>	BMS_Align_Candidate_Attributes/Office_Supplies
<b>Document Version</b>	0.0.5
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<b>BMS Template Version:</b>	1.1
<b>Targeted BMS Publication Version</b>	2.1

### Document Change History

*Note: During development include revisions in history. Upon Approval, eliminate revisions and include only delta from previous version.*

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
03.03.2005	0.0.1	Eric Kauz	Initial Draft		
04.05.2005	0.0.2	Eric Kauz	Changes to GDD Report For Public Review Comments.	Added Model for 1.3.2 Compatible Office Supply Extension.	
24.06.2005	0.0.3	Eric Kauz	Comments during extension pilot period.	<ul style="list-style-type: none"> <li>Added dimensions for Assembled For Display</li> <li>Changed multiplicities of Trade Item Recycling Content attributes</li> </ul>	

				to enforce conditional rules. <ul style="list-style-type: none"> <li>• Changed percentage data types to length of 3.2.</li> <li>• Changed Process Context to Align_Item</li> </ul>	
12.07.2005	0.0.4	Eric Kauz	Template Updates for Release 2.1		
24.04.2007	0.0.5	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

# Business Message Standard

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## Business Solution Design

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### 1. Business Solution

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

There is a need in the office supplies industry to exchange information on trade items. When most of the requirements are already covered in the Data Alignment messages, some specific requirements still have to be addressed.

##### 1.1.2 Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the Office Supplies Industry.

##### 1.1.3 Audience

Office supply suppliers and retailers.

##### 1.1.4 Artefacts

Not Applicable

##### 1.1.5 References

Reference Name	Description
Office Supplies Business Requirements V 1.7	Extended Item Attribute requirements for the Office Supplies Industry Sector

### 1.1.6 Acknowledgements

*(List of the individuals—and their companies—who participated in the creation, review and approval of this BMS.)*

#### 1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Chair	Jim Funk	SC Johnson
BRG Member	Bruce Hawkins	Wal-Mart
BRG Member	Hideki Ichihara	DCC Japan
BRG Member	Tan Jin Soon	EAN Singapore
BRG Member	Eric Kauz	GS1
BRG Member	Grant Kille	WWRE
BRG Member	Sean Lockhead	UCCNet
BRG Member	Brad Papietro	Wegmans
BRG Member	Peter Porri	Coca-Cola
BRG Member	Nadine Radomski	Dean Foods
BRG Member	William Rosenfeld	Sterling Commerce
BRG Member	Karen Spooner	Kraft
BRG Member	Gina Tomassi	Pepsi Cola
BRG Member	Chrystopher Vantine	Global eXchange Services
BRG Member	Steve Vazzano	Transora

### 1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Member	Mickey Atkins	AHOLD
ITRG Member		
ITRG Member		
...		

### 1.1.6.3 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

### 1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Eric Kauz	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer		



### 1.2 Business Context

*(Note: The business context of the business)*

Context Category	Value(s)
Industry	Office Supplies
Geopolitical	All
Product	All
Process	Align_Item
System Capabilities	EAN.UCC
Official Constraints	None

### 1.3 Additional Technical Requirements Analysis

#### 1.3.1 Technical Requirements (optional)

Not Applicable.

### 1.4 Business Transaction View

#### 1.4.1 Business Transaction Use Case Diagram

#### 1.4.2 Use Case Description

Refer to Use Case in Align Item BSD.

#### 1.4.3 Business Transaction Activity Diagram(s)

None

#### 1.4.4 Business Transaction Sequence Diagram(s) (optional)

None

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### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description:

#### 1.5.2 GDD Report :

#### Office Supply Trade Item Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components
OfficeSuppliesTradeItemExtension					An extension to the trade item which enables the passing of information for the following categories of trade items: ·Paper and anything related to paper (writing instruments, glue, staplers, etc.) ·Office furniture (desks, cupboards, lamps, etc.) ·Computers, peripherals and consumables (printers, toner, mice, etc.). ·Communication trade items (telephones, faxes, etc.).		
	isTradeItemRecalled				An indicator for the Trade Item to determine if the Manufacturer or Supplier has recalled the product.	1..1	Boolean
	isAssemblyRequired				Indicates that the Items in the package need to be assembled for use.	1..1	Boolean
	isProductCustomizable				Indicates whether the Items that the Retailer markets are customizable.	1..1	Boolean
	isTradeItemANon-				Non-Functioning Item is used for display purposes only. Typically, it is the shell of the Item	1..1	Boolean

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	Function- ingDisplayUnit				it represents. Relevant to when the sample has to actually be ordered from the Vendor.		
	isTrade- ItemDirect- Shippable				Indicates whether or not the Item is able to ship directly from the Supplier to Consumer.	1..1	Boolean
	isTrade- Item- Shipped- InMultiple- Containers				Indicates whether or not the Trade Item is shipped in more than 1 box.	1.1	Boolean
	additional- SubBrand				Additional second level brands. Can be a trademark. It is the primary differentiating factor that a brand owner wants to communicate to the consumer or buyer. E.g. Yummy-Cola Classic. In this example Yummy-Cola is the brand and Classic is the subBrand.	0..*	String 1-35
	returnGood- sPolicy				A code that describes the policy for defective, damaged or non-salable goods.	1..1	RightOfReturnForNon-SoldTrade-ItemCode-List
	tradeItem- ImageURI				The Uniform Resource Identifier (URI) for the location of the image (s) for the Trade Item. The location may be a Uniform Resource Locator (URL) specifying web site where the images may be found, a specific "product page" for the images, or a specific image file. This attribute may be repeated for as many image locations as required.	0..*	Long Description 1-1000
	model- Number				Additional Vendor identification number, which defines the configuration of the product over and above the Item number.	0..1	String 1-80
		None	TradeItemRe-		Provides details (e.g. percentages) on recy-	0..1	

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			cyclingContent		cled material content for a trade item.		
		None	NestingInfor- mation		The incremental height of Trade Items nested together.	0..*	
		None	TradeItem- Components		Provides information on any constituent part of a trade item that is packaged separately.	1..1	
		primary- Alter- nateT- radeItem	Trade- ItemIdentifica- tion		Item that is similar to the product and is not an exact match to the product. Same form fit function (e.g. same product different colour, different package size, better quality)	0..1	
		de- pendent Proprie- tary- Trade- Item	Trade- ItemIdentifica- tion		Any GTIN that is required in order to make another GTIN functional. The Manufacturer for this GTIN and the dependent GTIN should be the same.	0..*	
		None	WarrantyIn- formation		Provides information on the usually written guarantee of the integrity of a product and of the maker's responsibility for the repair or replacement of defective parts.	0..1	
		None	FMCGTrade- ItemIdentifica- tion		This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one to one relationship.	0..1	
		con- sumer- Pack- ageDis- claimer	MultiMedium- Description		Additional product information that should be disclosed in advertising or signage. Will be broken out per language.	0..*	
		warning- CopyDe- scription	MultiMedium- Description		Additional information outlining any special requirements - Warning and caution information printed on the package.	0..*	
		None	OutOfBoxIn- formation		The measurement of the actual Trade Item. These dimensions should be used for Items	0..1	

## Business Solution Design

					that do not require assembly but differ in size when removed from the packaging.		
		assembledForDisplay-Dimensions	OutOfBoxInformation		The dimensions (depth, width, height) of a trade item when out of its packaging and assembled or in its functional use.	0..1	
		unitsPerTradeItem	MultiMeasurementValue		Numeric value to indicate number of physical pieces used to make up the Consumer Unit. Used if there is more than one piece in one Trade Item.	0..1	
NestingInformation					The incremental height of Trade Items nested together.		
		nestingIncrement	MultiMeasurementValue	Nesting. Nesting Increment_ Association. Multi-unit Measure	Indicates the incremental height of Trade Items nested together.	1..1	
TradeItemRecyclingContent					Provides details (e.g. percentage contained) on recycled material content.		
	postConsumerRecycledMaterialContent				Identifies the percentage of post-consumer material that has been collected from recycle bins and used as pulp to make new Item. Dependent on totalRecyclableContent.	1..1	Percentage
	totalRecyclableContent				The amount of post- and pre-consumer recycled material used to make the final Item.	1..1	Percentage
TradeItemComponents					A constituent part of a trade item that is packaged separately.		
	isRadioFrequencyLOnPackaging				RFID indicator	1..1	Boolean

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	totalNumberOfComponents				Total number of boxes shipped for the Trade Item.	0..1	Integer
		None	ComponentInformation		Provides details on a constituent part of a trade item that is packaged separately.	0..*	
ComponentInformation					Provides details on a constituent part of a trade item that is packaged separately.		
	componentNumber				Box number being shipped for the Trade Item.	1..1	Integer
	descriptionOfContents				Indicates the description of the contents of the carton.	1..1	Description 1-70
		componentHeight	MultiMeasurementValue		The measurement of the Height of the component of the Trade Item. The vertical dimension from the lowest extremity to the highest extremity, including packaging.	1..1	
		componentDepth	MultiMeasurementValue		The measurement from front to back of the component of the Trade Item. The measurement includes the packaging.	1..1	
		componentWidth	MultiMeasurementValue		The measurement from left to right of the component of the Trade Item. The measurement includes the packaging.	1..1	
		componentGrossWeight	MultiMeasurementValue		Used to identify the Gross Weight of the component of the Trade Item. The Gross Weight includes all packaging materials of the component.	0..1	
WarrantyInformation					Provides information on the usually written guarantee of the integrity of a product and of the maker's responsibility for the repair or replacement of defective parts.		
	urlForWarranty			Warranty. URL For Warranty. Text	Indicates the location of the URL that contains the warranty information of the Item.	0..1	String 1-1000

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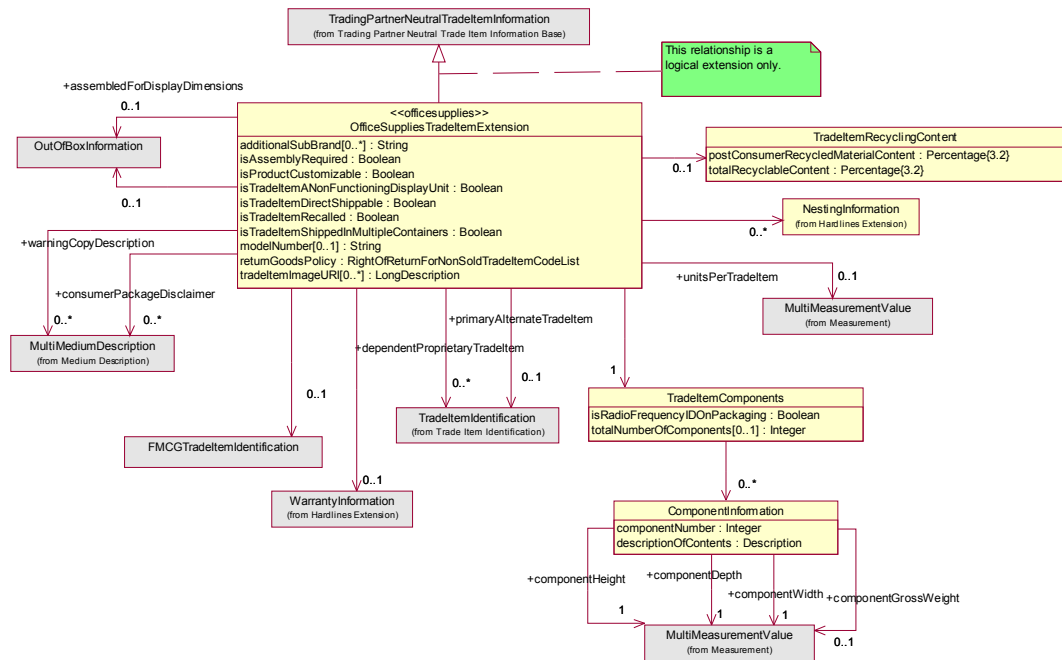
		warrant- tyDe- scription	MultiLongDe- scription	Warranty. Associa- tion. Long_ Multi- language Descrip- tion	Description of the warranty information as found on the Item.	0..1	
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End of Report

## Business Solution Design

### 1.5.3 Class Diagrams

#### 1.5.3.1 Office Supplies Trade Item Extension

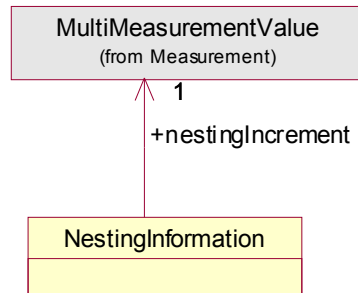




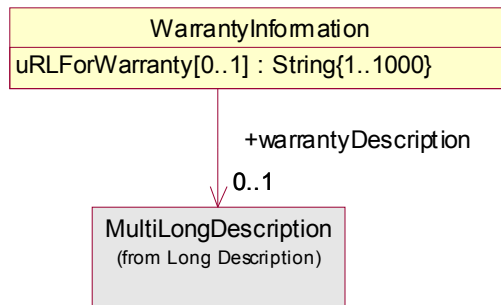
## Business Solution Design

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### Nesting Information



### Warranty Information



## Business Solution Design

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### 1.5.4 Code Lists

Code List Name	Code List Description
Right Of Return For Non Sold Trade Item Code List	
Code Name	Code Description
CALL_FOR_AUTHORIZATION	A call to a trading partner is required to obtain authorization to disposition defective, damaged, or otherwise non-saleable goods.
DESTROY_FOR_CREDIT	Trading partner documents and subsequently destroys defective, damaged, or otherwise non-saleable goods and is issued a credit for the material by the other trading partner.
DESTROY_NO_CREDIT	Indicates that in case a product is damaged, defective, or not-sellable it can be returned to the supplier. The supplier will then destroy the item and doesn't give the consumer any money back (ie: an old copier).
HOLD_FOR_INSPECTION	Defective, damaged, or otherwise non-saleable goods are held for inspection and verification by a trading partner prior to the issuance of credit for the material.
RETURN_FOR_CREDIT	Defective, damaged, or otherwise non-saleable goods are physically returned by a trading partner prior to the issuance of credit for the material.

### 1.6 Business Document Example

### 1.7 Implementation Considerations

### 1.8 Testing

#### 1.8.1 Pass / Fail Criteria

*Unit testing criteria for business solution.*

Nu mb er	Test Criteria	Related Re- quirement	Design Element	Pass Criteria	Fail Criteria
1					

#### 1.8.2 Test Data

Attribute	Value
isTradeltemRecalled	true
isAssemblyRequired	true
isProductCustomizable	true
isTradeltemANonFunctioningDisplayUnit	true
isTradeltemDirectShippable	true
isTradeltemShippedInMultipleContainers	true
additionalSubBrand	Basic Designs
returnGoodsPolicy	DESTROY_NO_CREDIT
tradeltemImageURI	www.myofficesupplyproductimage.org
modelNumber	423324234
postConsumerRecycledMaterialContent	30.00
totalRecyclableContent	30.00
isRadioFrequencyIDOnPackaging	true
totalNumberOfComponents	2
componentNumber	1
descriptionOfContents	Legs for Table
assembledForDisplayDimensions	
Height	90 CM
Depth	15 CM
Width	15 CM
componentHeight	100 CM
componentDepth	20 CM
componentWidth	20 CM
componentGrossWeight	30 KGS
uRLFor-Warranty	www.myofficesupplywarranty.org

## Business Solution Design

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### 1.9 Appendices

#### 1.10 Summary of Changes

*(Details changes to BMS for each version by BMS Section)*

Change	BMS Ver- sion	Associated CR Number
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### 2. Technical Solution Design

This section provides the specifications for the standards content ITRG approves. It is called the Technical Solution Design (TSD).

The Technical Solution Design contains:

- TSD Zip file Table of Contents
- Business Message Standard Section Technical Level GDD Report
- XSD (XML Schema Documents)
- XML Instance File and HTML Form View (XML and HTML files containing sample data specified in Section 1.6)

In the process of approving the Technical Solution Design, the ITRG will be provided the following artefacts:

- Any relevant Business Requirements Analysis Document (BRAD)
- Any relevant Business Requirements Document (BRD)
- Section 1 of Business Message Standard (Business Solution Design)
- Comment Resolution Template from Technical Public Review
- XML Test Report
- Change Request
- Other informative or reference documents