



# **Business Message Standard (BMS) Align\_Office\_Supplies\_Extension**

**BMS Release: 2.7, BRG Name: GDSN**

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## Document Summary

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## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
BRAD Data Alignment for Office Supplies	20050518	0.0.6
BRAD For GDSN Item Maintenance Release 2	20070722	0.0.4
BRAD For GDSN Item Maintenance Release 3	24-Mar-2008	0.0.2

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20050722	0.0.1	Eric Kauz	Initial Draft		7184
20050815	0.0.2	Eric Kauz	Peer Review	<ul style="list-style-type: none"><li>Corrected Sample Data</li><li>Corrected Formatting Issues</li><li>Added definitions for code list values for RightOfReturnForNonSoldTradeItem Code List and FMCGTradeItemIdentification Code List.</li></ul>	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20051108	0.0.3	Eric Kauz	Public Review Feedback	Added isTradeltemRecalled, modelNumber, unitsPerTradeltem, WarrantyInformation.	
20051206	0.0.4	Eric Kauz	ITRG Review	Changed postConsumerRecycledMaterialContentPercentage to mandatory. Changed isTradeltemRecalled to optional.	
20061117	0.0.5	Eric Kauz	CR 06-000262	Replacement of Candidate Attribute.	
20070120	0.0.6	Eric Kauz	Comment Review	Changed postConsumerRecycledMaterialContentPercentage totalRecyclableContentPercentage, componentNumber and totalNumberOfComponents to have data types of non-negative integer.	
20070402	0.0.7	Giovanni Biffi	Added Code Values to the RightOfReturnForNon-SoldTradeltem Code List	New code values requested on CR 06-000181	
20070813	0.0.8	Giovanni Biffi	GDSN Maintenance Release 2	Template Updated Changes corresponding to the GDSN Maintenance Release 2	
29-May-2008	2.1.0	Eric Kauz	<ul style="list-style-type: none"> <li>Changes corresponding to GDSN Maintenance Release 3. See appendix for detailed information.</li> </ul>	Changes corresponding to the GDSN Maintenance Release 3	N/A

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# 1. Business Domain View

## 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.

This extension covers all office supplies industry requirements described in the BRAD Data Alignment for Office Supplies. This document covers all the items needed to work in an office.

The following categories of trade items are concerned:

- 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.).

## 1.2. Objective

The creation of a new extension including attributes and code list values already existing in the hard lines model as well as the needs of the office supplies industry.

## 1.3. Audience

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers and other third parties.

## 1.4. References

Reference Name	Description
BRAD Data Alignment for Office Supplies: Version: 0.0.6	Extended Item Attribute requirements for the Office Supplies Industry Sector
BRAD For GDSN Item Maintenance Release 1: Version: 0.0.2	Updated business rules and definitions around the Align Trade Item Standard

## 1.5. Acknowledgements

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

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Peer Reviewer	John Ryu	GS1

## 2. Business Context

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

## 3. Additional Technical Requirements Analysis

This section documents the analysis of additional technical requirements.

### 3.1. Technical Requirements (optional)

Number	Statement	Rationale
	Not Applicable	

## 4. Business Transaction View

### 4.1. Business Transaction Use Case Diagram

Not Applicable

### 4.2. Use Case Description

Not Applicable

### 4.3. Business Transaction Activity Diagram(s)

None

### 4.4. Business Transaction Sequence Diagram(s) (optional)

None

## 5. Information Model (Including GDD Report)

### 5.1. Data Description

#### Office Supplies Trade Item Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirement
ComponentInformation				[ref1]
	componentNumber			[ref1] {7.1-19}
	contentsDescription			[ref1] {7.1-18}
		componentDepth	MultiMeasurementValue	[ref1] {7.1-22}
		componentGrossWeight	MultiMeasurementValue	[ref1] {7.1-23}
		componentHeight	MultiMeasurementValue	[ref1] {7.1-20}
		componentWidth	MultiMeasurementValue	[ref1] {7.1-21}
OfficeSuppliesTradeItemExtension				[ref1]
	isTradeItemRecalled			[ref1]
	isAssemblyRequired			[ref1] {7.1-12}
	isProductCustomizable			[ref1] {7.1-14}
	isTradeItemA NonFunctioningDisplayUnit			[ref1] {7.1-11}
	isTradeItemDirectShippable			[ref1] {7.1-15}
	isTradeItemShippedInMultipleContainers			[ref1] {7.1-16}
	modelNumber			[ref1]
	returnGoodsPolicy			[ref1] {7.1-24}
		fMCGAdditionalTradeItemIdentification	FMCGRTradeItemIdentification	[ref1] {7.1-25}
		consumerPackageDisclaimer	MultiDescription	[ref1] {7.1-3}
		warningCopyDescription	MultiDescription	[ref1] {7.1-4}
		None	tradeItemComponents	[ref1]
		dependentProprietaryTradeItem	TradeItemIdentification	[ref1] {7.1-5}



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirement
		primaryAlternateTradeltem	TradeltemIdentification	[ref1] {7.1-13}
		None	TradeltemRecyclingContent	[ref1]
		unitsPerTradeltem	MultiMeasurementValue	[ref1]
		None	WarrantyInformation	[ref1]
tradeltemComponents				[ref1]
	isRadioFrequencyIdOnPackaging			[ref1] {7.1-10}
	totalNumberOfComponents			[ref1] {7.1-17}
		None	ComponentInformation	[ref1]
TradeltemRecyclingContent				[ref1]
	postConsumerRecycledMaterialContentPercentage			[ref1] {7.1-1}
	totalRecyclableContentPercentage			[ref1] {7.1-2}

## 5.2. GDD Report

### Office Supplies Trade Item Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ComponentInformation				Component. Details	Not Available	
	componentNumber			Component. Component Number. Integer_ Numeric	Indicate the box number being shipped for the trade item.	1..1
	contentsDescription			Component. Contents Description. Text	Describes the contents of the carton (the component) when a trade item is shipped in multiple boxes.	1..1
		componentDepth	MultiMeasurement Value	Component. Component Depth. Multi-unit Measure	The measurement of the component from back to front, including the packaging.	1..1
		componentGrossWeight	MultiMeasurement Value	Component. Component Gross Weight. Multi-unit Measure	The weight of the component including all packaging materials.	1..1
		componentHeight	MultiMeasurement Value	Component. Component Height. Multi-unit Measure	The vertical dimension from the lowest extremity to the highest extremity, including packaging.	1..1
		componentWidth	MultiMeasurement Value	Component. Component Width. Multi-unit Measure	The measurement of the component from left to right, including the packaging.	1..1
OfficeSuppliesTradeItemExtension				Office Supplies Trade Item Extension. Details	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	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					instruments, glue, staplers, etc.) -Office furniture (desks, cupboards, lamps, etc.) -Computers, peripherals and consumables (printers, toner, mice, etc.) -Communication trade items (telephones, faxes, etc.).	
	isAssemblyRequired			Office Supplies Trade Item Extension. Is Assembly Required. Indicator	Indicates that the Items in the package need to be assembled for use.	0..1
	isProductCustomizable			Office Supplies Trade Item Extension. Is Product Customizable. Indicator	Indicates whether the Items that the Retailer markets are customisable to meet the end consumer's requirements.	0..1
	isTradeItemA Non Functioning Display Unit			Office Supplies Trade Item Extension. Is Trade Item A Non Functioning Display Unit. Indicator	Indicates that a trade item is a non-functioning Trade Item, used for display purposes only. Typically it is the shell of the trade item that it represents. Relevant to when the non-functioning Trade Item has to actually be ordered from the supplier.	0..1
	isTradeItemRecalled			Office Supplies Trade Item Extension. Is Trade Item Recalled.Indicator	An indicator for the Trade Item to determine if the Manufacturer or Supplier has recalled the product.	0..1
	isTradeItemDirect Shippable			Office Supplies Trade Item Extension. Is Trade Item Direct Shippable. Indicator	Indicates that the trade item can be shipped directly from the supplier to the end-consumer or to the dealer.	0..1

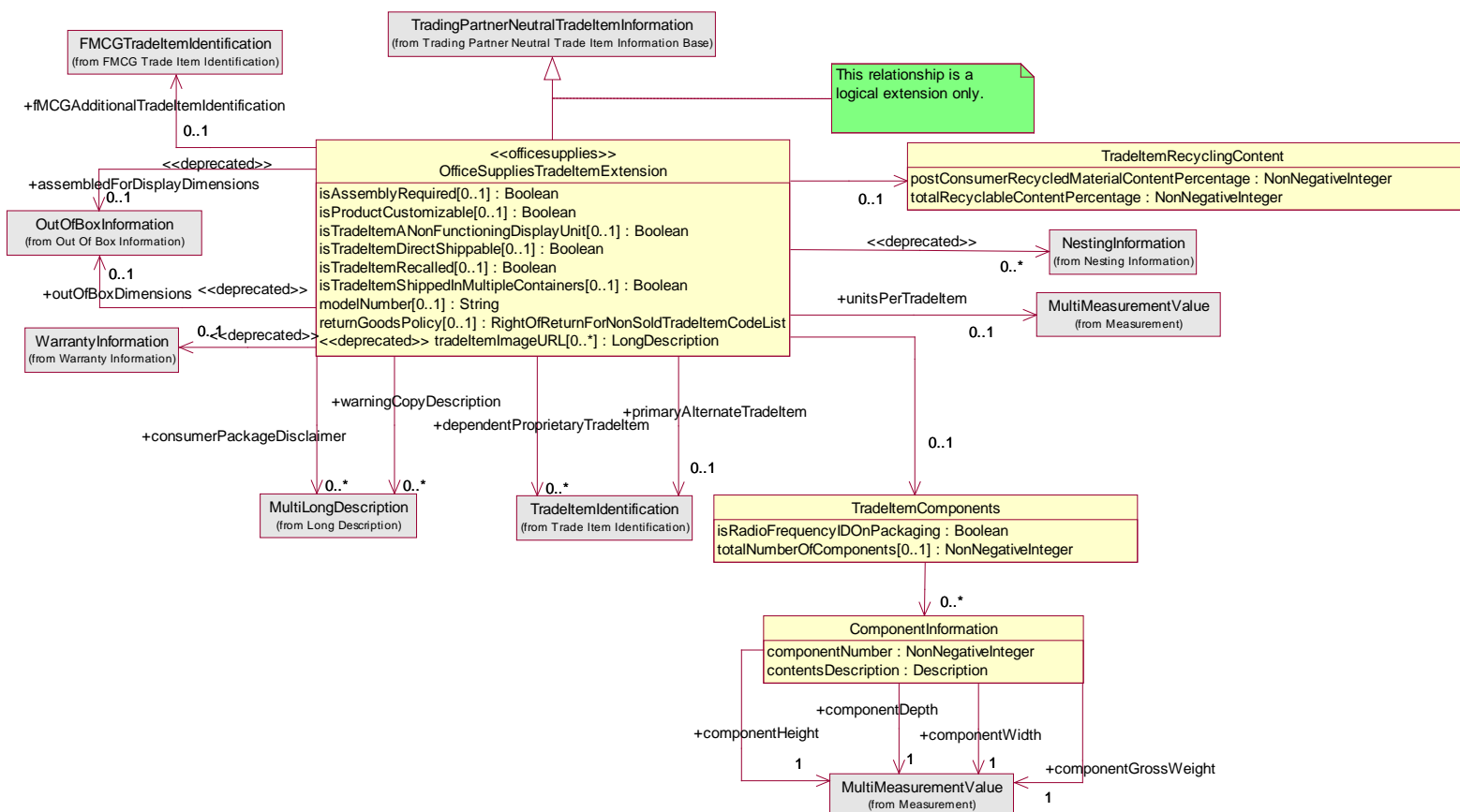
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	isTradeItemShippedInMultipleContainers			Office Supplies Trade Item Extension. Is Trade Item Shipped In Multiple Containers. Indicator	Indicates that more than one box is to be delivered when the trade item is ordered.	0..1
	modelNumber			Office Supplies Trade Item Extension. Model Number. Text	Additional Vendor identification number, which defines the configuration of the product over and above the Item number.	0..1
	returnGoodsPolicy			Office Supplies Trade Item Extension. Return Goods Policy. Right Of Return For Non Sold Item Code_ Code	A code that describes the policy for defective, damaged or non-saleable goods.	0..1
	<deprecated>tradeItemImageURL			Office Supplies Trade Item Extension. Trade Item Image URL. Text	Indicates where image(s) may be found, a specific "product page" for the images, or a specific image file. These images are used for imaging in catalogues and websites for example.	0..*
		fMCGAdditionalTradeItemIdentification	FMCGTradeItemIdentification	Office Supplies Trade Item Extension. Association. Non GTIN_ FMCG_ Trade Item Identification	Provides Additional Trade Item Identification for the Office Supplies Trade Item.	0..1
		consumerPackageDisclaimer	MultiDescription	Office Supplies Trade Item Extension. Consumer Package Disclaimer. Multi-language Description	Additional information that should be used in advertising and in displaying.	0..*
		warningCopyDescription	MultiDescription	Office Supplies Trade Item Extension. Warning Copy Description. Multi-language Description	Warning information is additional information that outlines special requirements, warning and caution information printed on the package.	0..*
		<<deprecated>>outOfBoxDimensions	OutOfBoxInformation	Office Supplies Trade Item Extension. Out Of Box Dimensions. Dimension	The measurement of the actual Trade Item as used by the consumer. For items that do not	0..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					require assembly but differ in size when removed from the packaging (e.g. a refrigerator) or for items that require assembly (e.g. a desk).	
		<<deprecated>>assembledForDisplayDimensions	OutOfBoxInformation	Office Supplies Trade Item Extension. Assembled For Display Dimensions. Dimension	The measurements of the displayed/consumer item.	0..1
		None	tradeItemComponents	Office Supplies Trade Item Extension. Association. Trade Item Components	Details on the individual components of a Trade Item.	0..1
		dependentProprietaryTradeItem	TradeItemIdentification	Office Supplies Trade Item Extension. Dependent Trade Item. Trade Item Identification	Dependent trade items are Trade Items which are required to make the current trade item functional.	0..*
		primaryAlternateTradeItem	TradeItemIdentification	Office Supplies Trade Item Extension. Primary Alternate Trade Item. Trade Item Identification	A Trade Item that is similar to the current Trade Item but is not exact match. Same form fit function, e.g. same product different colour, different package size, better quality.	0..1
		None	TradeItemRecyclingContent	Office Supplies Trade Item Extension. Association. Trade Item_ Recycling Content	Provides details (e.g. percentage contained) on recycled material content.	0..1
		unitsPerTradeItem	MultiMeasurementValue	Office Supplies Trade Item Extension.Units Per Trade Item. Multi-unit Measure	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
		<<deprecated>>None	NestingInformation	Office Supplies Trade Item Extension. Association. Nesting	The incremental height of Trade Items nested together.	0..*

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		<<deprecated>>None	WarrantyInformation	Office Supplies Trade Item Extension. Association. Warranty Information	Information on the integrity of a product and of the maker's responsibility for the repair or replacement of defective parts for an Office Supplies Trade Item.	0..1
tradeItemComponents				Trade Item Components. Details	A constituent part of a trade item that is packaged separately.	
	isRadioFrequencyIDOnPackaging			Trade Item Components. RadioFrequencyIDOnPackaging. Indicator	Determines if there is a Radio Frequency Identification associated with the component.	1..1
	totalNumberOfComponents			Trade Item Components. Total Number Of Components. Integer_ Numeric	The total number of components (boxes) shipped for the trade item. Indicates the total number of boxes to be delivered when the trade item is ordered.	0..1
		None	ComponentInformation	Trade Item Components. Association. Component	Provides details on a constituent part of a trade item that is packaged separately.	0..*
TradeItemRecyclingContent				Trade Item_ Recycling Content. Details	Provides details (e.g. percentage contained) on recycled material content.	
	postConsumerRecycledMaterialContentPercentage			Trade Item_ Recycling Content. Post Consumer Recycled Material Content Percentage. Integer_ Numeric	Indicates the percentage of post-consumer material used in the trade item. The post-consumer material is collected from recycle bins and used as pulp to make new items. The percentage of post-consumer material is needed to drive whether	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					the recycled logo goes on the item. Some post-consumer material is collected from the recycle bins and used as pulp to make new items.	
	totalRecyclableContentPercentage			Trade Item_ Recycling Content. Total Recyclable Content Percentage. Integer_Numeric	The percentage of all recycled material used to produce the trade item. Drives whether or not you can describe an item as recycled in advertising/marketing. This is the totalled recycled content including percentage of post consumer recycled. It excludes all packaging material.	1..1

### 5.3. Class Diagrams



Note: The relationship between the extension and the Trading Partner Neutral Trade Item Information class is logical only and does not designate the physical location of the extension tag in the Schema. This relationship states that, logically, the information contained in the extension belongs with other Trading Partner Neutral Trade Item Information such as packaging marking and item dimensions. The physical placement of the extension tag is a technical decision as long as it allows the implementers to relate the extensions to a specific trade item.



Note: The following deprecated attributes have been replaced by attributes/associations in the Core Trade Item. These deprecated attributes will remain in the schema until a major release when they will be removed.

Deprecated Attribute/Association	Replacement in Core Item
Nesting Information	Nesting Increment
Out Of Box Information	Trade Item Display Dimensions
AssembledForDisplayDimensions	Trade Item Display Dimensions
Warranty Information	Trade Item Warranty Information

## Classes Found In Common BSD

MultiLongDescription
MultiMeasurementValue
TradeItemIdentification

## 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 (i.e.: an old copier).
FULL	The manufacturer has indicated the return policy can be for a full shipment of the merchandise received by the retailer.
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.
NO_POLICY	There is no effective policy regarding the disposal of defective, damage and non-saleable goods
PARTIAL	The manufacturer has indicated the return policy can only be for a partial shipment of the merchandise received by the retailer.
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.

## 6. Business Document Example

Not Applicable

## 7. Implementation Considerations

Not Applicable

## 8. Testing

This section describes the testing criteria for business solutions.

### 8.1. Pass / Fail Criteria

Not Applicable

### 8.2. Test Data

Attribute	Value
isAssemblyRequired	True
isProductCustomizable	True
isTradelItemANonFunctioningDisplayUnit	True
isTradelItemDirectShippable	True
isTradelItemShippedInMultipleContainers	true
returnGoodsPolicy	DESTROY_NO_CREDIT
postConsumerRecycledMaterialContentPercentage	30
totalRecyclableContentPercentage	30
totalNumberOfComponents	2
componentNumber	1
contentsDescription	Legs for Table <ENG>
componentHeight	100 CM
componentDepth	20 CM
componentWidth	20 CM
componentGrossWeight	30 KGS

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
<ul style="list-style-type: none"> <li>Added in Nesting Information to Class Diagrams</li> <li>Changed reference to Dimensions to reference to OutOfBoxInformation to keep consistency with Hardlines Extension.</li> <li>Added back in isRadioFrequencyIDOnPackaging to meet Candidate Attribute Requirements.</li> <li>Changed attribute dependentTradeltem to dependentProprietaryTradeltem to match semantics on Candidate Attribute.</li> </ul>	0.0.5	06-000262
<ul style="list-style-type: none"> <li>New code values: FULL and PARTIAL added to the RightOfReturnForNonSoldTradeltem Code List</li> </ul>	1.0.1	CR 06 -000181
<ul style="list-style-type: none"> <li>Template migrated to version 1.0.2</li> <li>Updated definition of Out Of Box Dimensions so they do not exclude items that require assembly.</li> <li>New code values: NO_POLICY added to the RightOfReturnForNonSoldTradeltem Code List</li> <li>Deprecated Nesting Increment and TradeltemURL as they were replaced by additions to the core trade item.</li> </ul>	1.0.2	CR 07-000187
<ul style="list-style-type: none"> <li>Deprecated Warranty Information , Out Of Box and Assembled for Display Information</li> </ul>	1.1.0 (V 2.3)	