

# **Business Message Standard (BMS)**

**for**

**Align/Hardlines Item  
Extension**

**BRG: Align**

**BMS Release: 2.1**

**Document Version: 2.0.5**

**Release Date: 04.06.2007**

*(dd.mm.ccyy)*



### Change Request Reference

<b>Refer to Change Request (CR) Number(s):</b>	03-000137
<b>CR Submitter(s):</b>	Andrew Hearn
<b>Date of CR Submission to GSMP:</b>	20031007

### Business Requirements Document (BRAD) Reference

<b>BRAD Title:</b> BRD Hardlines Item
<b>BRAD Date:</b> 27.10.2004
<b>BRAD Version:</b> 0.0.5

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

### Document Summary

<b>Document Title:</b>	BMS For Align/Hardlines Item
<b>Document Version</b>	2.0.5
<b>Owner:</b>	Align BRG
<b>Status:</b>	(Check one box) <input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> Approved
<b>BMS Template Version:</b>	1.0
<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 #
31.12.2004	2.0.0	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	N/A
31.12.2004	2.0.0	Rob Toole	Added GDD information.		N/A
11.03.2005	2.0.1	Eric Kauz	Updated GDD Report		N/A
31.03.2005	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
31.03.2005	2.0.3	John Ryu	Added extension Notes		N/A

11.07.2006	2.0.4	Eric Kauz	Template Updates for 2.1		
02.04.2007	2.0.5	Giovanni Biffi	Added Code Values to the RightOfReturnForNon-SoldTradeItem Code List	New code values requested on CR 06-000181	N/A

Chapter	Page
<b>1 Business Solution .....</b>	<b>1</b>
1.1 Business Domain View.....	1
1.1.1 Problem Statement / Business Need.....	1
1.1.2 Objective.....	1
1.1.3 Audience.....	1
1.1.4 Artefacts .....	1
1.1.5 References .....	1
1.1.6 Acknowledgements .....	2
1.1.6.1 BRG Members .....	2
1.1.6.2 ITRG Members .....	2
1.1.6.3 Task/Project Group Participants.....	3
1.1.6.4 Design Team Members .....	3
1.2 Business Context .....	4
1.3 Additional Technical Requirements Analysis .....	4
1.3.1 Technical Requirements (optional).....	4
1.4 Business Transaction View .....	5
1.4.1 Business Transaction Use Case Diagram.....	5
1.4.2 Use Case Description.....	5
1.4.3 Business Transaction Activity Diagram(s) .....	6
1.4.4 Business Transaction Sequence Diagram(s) (optional) .....	6
1.5 Information Model (including GDD Report) .....	7
1.5.1 Data Description:.....	7
1.5.2 GDD Report :.....	10
1.5.3 Class Diagrams .....	13
1.5.4 Code Lists.....	14
1.6 Business Document Example .....	14
1.7 Implementation Considerations.....	14
1.8 Testing.....	14
1.8.1 Pass / Fail Criteria .....	14
1.8.2 Test Data .....	14
1.9 Appendices.....	16
1.10 Summary of Changes.....	16

**2     Technical Solution Design ..... 17**

### 1 Business Solution

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

The Voluntary Inter-industry Commerce Standards Organization (VICS) Data Synchronization Subcommittee has reviewed the existing Trade Item Data Model and compared those attributes to current business process requirements in this industry. Industry unique materials and processes exist which requires additional attributes to completely and properly convey the data supporting current business processes in this industry. This document both defines and describes those additional attributes that have been identified as necessary to support current Hardlines industry business requirements. This includes new attributes and new Data Validation Rules.

##### 1.1.2 Objective

To supply the detail design of the Item Extension for the Hardlines Vertical Industry business transaction needed to meet the requirements of the referenced BRAD(s).

##### 1.1.3 Audience

The audience of the standards would be any participant in the global supply chain specifically the Hardlines Industry.

##### 1.1.4 Artefacts

Artefact name	State	Artefact / State description
Hardlines Item Business Requirements Document, Version 0.0.5, Date October 27, 2004		Business Requirements Item Attribute Requirements Hardlines Industry Sector.

##### 1.1.5 References

Reference Name	Description
EAN.UCC System	
GSMP Manual	
Object Management Group	
W3C	
BRAD For GDSN Item Maintenance Release 1: Version: 0.0.2	Updated business rules and definitions around the Align Trade Item Standard

### 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	S.C Johnson, Inc
BRG Member		
BRG Process Manager	Andrew Hearn	Uniform Code Council

#### 1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		
ITRG Member		
...		

### 1.1.6.3 Task/Project Group Participants

Function	Name	Company / organisation
Participant	John Blind	Kodak
Participant	Lee Bowers	Lowe's
Participant	Sue Brozas	UCCnet
Participant	Minka Car	ACNielsen
Participant	Claudia Chmella	SINFOS GmbH
Participant	Denis Conway	The NPD Group
Participant	Robert Fassberg	QRS Corporation
Participant	Kevin Ferber	EDS
Participant	Dan Gallagher	TR2
Participant	Jean-Christophe Gilbert	EAN-France
Participant	Whitney Gilliam	Springs Industries, Inc
Participant	Paula Giovanetti	Ecworkshops.com
Participant	Mike Harris	Velosel Corporation
Participant	Bruce Hawkins	Wal-Mart Stores, Inc
Participant	Andrew Hearn	Uniform Code Council
Participant	Donna Howells	UDEX Ltd.
Participant	Emma James	ACNielsen
Participant	Shahid Javed	Transora
Participant	Mae Kemp	Lowe's
Participant	Rita Laur	ECCC
Participant	Zoltan Patkai	EAN International
Participant	Randy Rajagopal	Velosel Corporation
Participant	Rich Richardson	Uniform Code Council
Participant	Larry Rushing	HAHT Commerce
Participant	John Ryu	Uniform Code Council
Participant	Steve Shultz	TR2
Participant	Inderjeet Singh	Velosel Corporation
Participant	Thomas Smith	AGSA.US
Participant	Tan Soon	SANC
Participant	Peggy Spofford	3M
Participant	Jim Sykes	UCCnet
Participant	Jen Xiques	UCCnet

### 1.1.6.4 Design Team Members

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



### 1.2 Business Context

Context Category	Value(s)
Industry	Hardlines
Geopolitical	All
Product	All
Process	Align
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**

Covered by Align\_Item Use Cases.

#### **1.4.2 Use Case Description**

Covered by Align\_Item Use Cases.

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

Not Applicable.

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

Not Applicable

### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description:

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Re- quirements
HardlinesTradeltem				BRD Hardli- nes Item V 0.0.8 2004.12.08
	isTradeltemRe- called			BRD Hardli- nes Item V 0.0.8 2004.12.08
	modelNumber			BRD Hardli- nes Item V 0.0.8 2004.12.08
		unitsPerTradeltem	MultiMeasurement- Value	BRD Hardli- nes Item V 0.0.8 2004.12.08
NestingInformation				BRD Hardli- nes Item V 0.0.8 2004.12.08
		nestingIncrement	MultiMeasurement- Value	BRD Hardli- nes Item V 0.0.8 2004.12.08
OutOfBoxInformation				BRD Hardli- nes Item V

## Business Solution Design

				0.0.8 2004.12.08
		Depth	MultiMeasurement-Value	BRD Hardli- nes Item V 0.0.8 2004.12.08
		Height	MultiMeasurement-Value	BRD Hardli- nes Item V 0.0.8 2004.12.08
		Width	MultiMeasurement-Value	BRD Hardli- nes Item V 0.0.8 2004.12.08
RightOfReturnForNonSoldTrade-Item				BRD Hardli- nes Item V 0.0.8 2004.12.08
	returnGoodsPolicy			BRD Hardli- nes Item V 0.0.8 2004.12.08
WarrantyInformation				BRD Hardli- nes Item V 0.0.8 2004.12.08
	uRlForWarranty			BRD Hardli- nes Item V 0.0.8 2004.12.08
		warrantyDescrip- tion	MultiDescription	BRD Hardli- nes Item V 0.0.8

## Business Solution Design

---

---

				2004.12.08
--	--	--	--	------------

End of Report

## Business Solution Design

### 1.5.2 GDD Report :

(Output from GDD should be pasted in this section.)

#### Hardlines Trade Item Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
HardlinesTradeItem				Hardlines Trade Item. Details	A collection of information related to hardware and housewares products.	
	isTradeItemRecalled			Hardlines Trade Item. Is Trade Item Recalled. Indicator	An indicator for the Trade Item to determine if the Manufacturer or Supplier has recalled the product.	1..1
	modelNumber			Hardlines Trade Item. Model Number. Text	Additional Vendor identification number, which defines the configuration of the product over and above the Item number.	0..1
		unitsPerTradeItem	MultiMeasurementValue	Hardlines Trade Item. Pieces Per Trade Item Association. Multi-unit Measure	Numeric value to indicate number of physical units used to make up the Consumer Unit. Used if there is more than one unit in one Trade Item.	0..1
		None	NestingInformation	Hardlines Trade Item. Association. Nesting	Not Available	0..*
		None	OutOfBoxInformation	Hardlines Trade Item. Association. Out Of Box_ Dimension	Dimensions of items that do not require assembly but differ in size when removed from the packaging.	0..*
		None	RightOfReturnForNonSoldTradeItem	Hardlines Trade Item. Association. Non Sold Trade Item_ Right Of Return	A code that describes the policy for defective, damaged or non-salable goods.	1..1
		None	WarrantyInformation	Hardlines Trade Item. Association. Warranty	This information on WarrantyInformation for HardlinesTradeItem.	0..1
Hardli-				Hardlines_ Extension_	The root class an extension used to	

## Business Solution Design

nesTrade-ItemExtension				Trade Item. Details	transmit item attributes associated with the hardlines industry.	
		None	HardlinesTrade-Item	Hardlines_ Extension_ Trade Item. Association. Hardlines Trade Item	This information on HardlinesTrade-Item for HardlinesTradeItemExtension.	1..1
NestingInformation				Nesting. Details	The incremental height of Trade Items nested together.	
		nestingIncrement	MultiMeasurement-Value	Nesting. Nesting Increment_ Association. Multi-unit Measure	Indicates the incremental height of Trade Items nested together.	1..1
OutOfBox-Information				Out Of Box_ Dimension. Details	The measurement of the actual Trade Item. These dimensions should be used for Items that do not require assembly but differ in size when removed from the packaging.	
		Depth	MultiMeasurement-Value	Out Of Box_ Dimension. Depth_ Association. Multi-unit Measure	The measurement of the depth of the actual Trade Item. These dimensions should be used for Items that do not require assembly but differ in size when removed from the packaging.	1..1
		Height	MultiMeasurement-Value	Out Of Box_ Dimension. Height_ Association. Multi-unit Measure	The measurement of the height of the actual Trade Item. These dimensions should be used for Items that do not require assembly but differ in size when removed from the packaging.	1..1
		Width	MultiMeasurement-Value	Out Of Box_ Dimension. Width_ Association. Multi-unit Measure	The measurement of the width of the actual Trade Item. These dimensions should be used for Items that do not require assembly but differ in size when removed from the packaging.	1..1
RightOfRe-				Non Sold Trade Item_	The effective policy regarding the dis-	

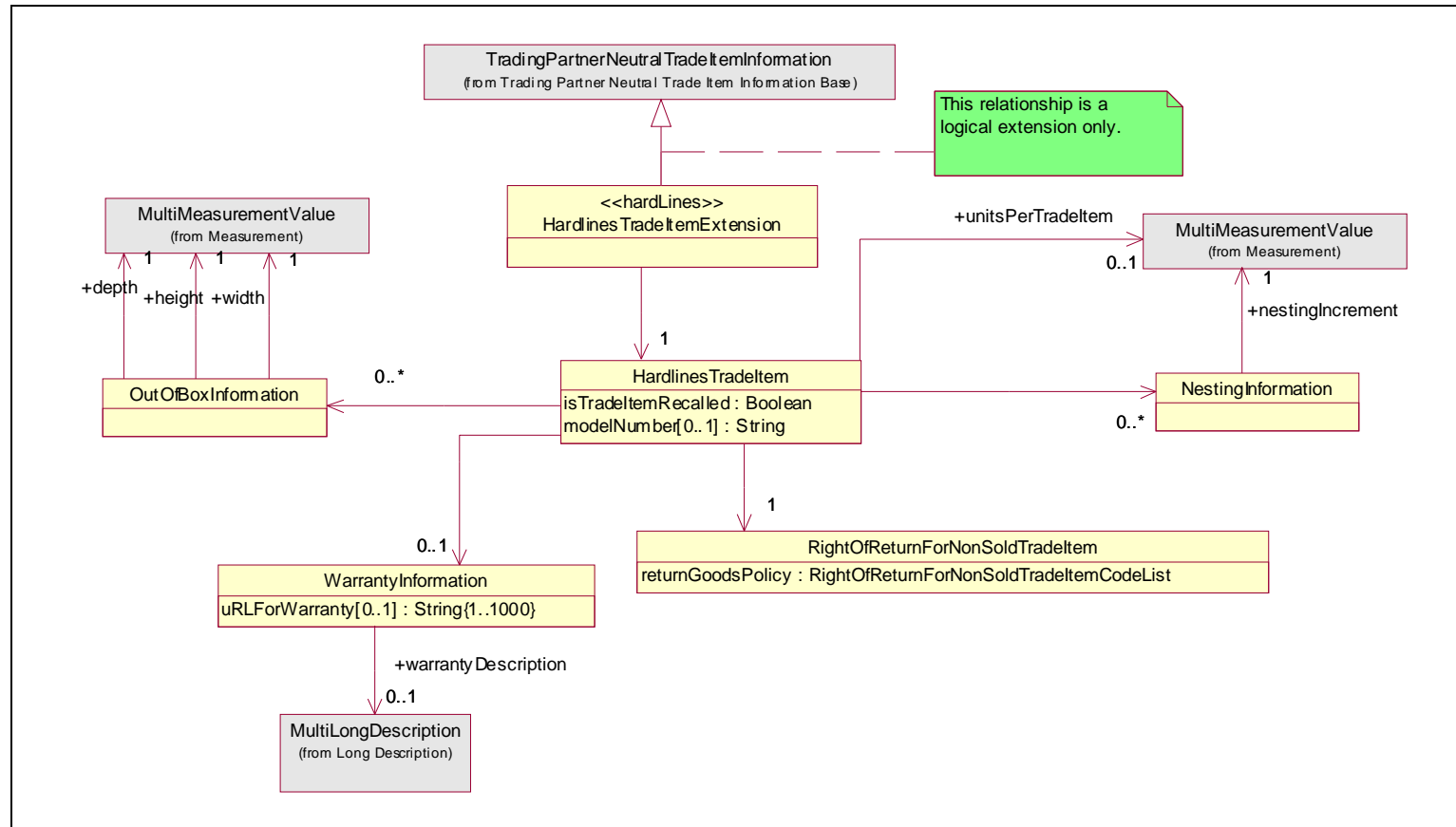


## Business Solution Design

turnFor-NonSold-TradeItem				Right Of Return. Details	posal of defective, damaged or non-saleable goods.	
	returnGoodsPolicy			Non Sold Trade Item_ Right Of Return. 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.	1..1
Warranty-Information				Warranty. Details	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.	
	uRLFor-Warranty			Warranty. URL For Warranty. Text	Indicates the location of the URL that contains the warranty information of the Item.	0..1
		warranty-Description	MultiDe-Description	Warranty. Association. Multi-language De-scription	Description of the warranty information as found on the Item.	0..1

End of Report

### 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.

### 1.5.4 Code Lists

Code List Name	Code List Description
RightOfReturnForNonSold-TradeItemCodeList	A code list that describes the notification and trade item disposition policy to be used between trading partners to manage defective, damaged or otherwise non-saleable goods.
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.
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.

### 1.6 Business Document Example

### 1.7 Implementation Considerations

### 1.8 Testing

#### 1.8.1 Pass / Fail Criteria

Not Available

#### 1.8.2 Test Data

## Business Solution Design

---

Attribute	Value
Is Trade Item Recalled	<a href="#">False</a>
Model Number	<a href="#">123</a>
Units Per Trade Item	<a href="#">`10`</a> UoM <a href="#">`CA`</a>
Return Good Policy	<a href="#">CALL_FOR_AUTHORIZATION</a>
Nesting Increment	<a href="#">`5.2`</a> UoM <a href="#">`IN`</a>
Depth	<a href="#">`40`</a> UoM <a href="#">`CM`</a>
Height	<a href="#">`150`</a> UoM <a href="#">`CM`</a>
Width	<a href="#">`40`</a> UoM <a href="#">`CM`</a>
uRL For Warranty	<a href="#">`http://www.MyProductsWarranty.com`</a>

### 1.9 Appendices

#### 1.10 Summary of Changes

Change	BMS Version	Associated CR Number
<ul style="list-style-type: none"><li>New code values: FULL and PARTIAL added to the RightOfReturnForNonSold-TradeItem Code List</li></ul>	2.0.5	CR 06 -000181

### 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