

# **Business Message Standard (BMS)**

**for**

**Align/Hardlines Item  
Extension**

**BRG: Align**

**BMS Release: 2.0.2**

**Document Version: 2.0.4**

**Release Date: 31.03.2005**

*(dd.mm.cyyy)*



### 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
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### 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
20.04.2007	2.0.4	Giovanni Biffi	Editorial Changes	Minor editorial changes to the document	N/A

## Business Message Standard

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### 1 Business Solution

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

The Voluntary Interindustry 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	

### 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	Uniform Code Council
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer	Eric Kauz	Uniform Code Council

## Business Solution Design

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### 1.2 Business Context

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

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)

*(User Interface, Security, Performance, Quality, etc.)*

Number	Statement	Rationale

## Business Solution Design

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### 1.4 Business Transaction View

#### 1.4.1 Business Transaction Use Case Diagram

#### 1.4.2 Use Case Description

Use Case ID	UC-1 N/A												
Use Case Name													
Use Case Description													
Actors (Goal)													
Performance Goals													
Preconditions													
Post conditions													
Scenario	<p><b>Begins when...</b></p> <p><b>Continues with...</b></p> <table border="1"><thead><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><tr><td>1</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr></tbody></table> <p><b>Ends when...</b></p>	Step #	Actor	Activity Step	1			2			3		
Step #	Actor	Activity Step											
1													
2													
3													
Alternative Scenario	<p><i>(any alternatives to the above scenario)</i></p> <table border="1"><thead><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	Step #	Actor	Activity Step									
Step #	Actor	Activity Step											
Related Requirements	<table border="1"><tr><td>1</td><td></td></tr></table>	1											
1													
Related Rules	<table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>												

## **Business Solution Design**

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

N/A

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

## Business Solution Design

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### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description:

*(Contains list of attributes included in the model and the related requirement which led to its inclusion in the design.))*. .

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
HardlinesTradeItem				BRD Hardlines Item V 0.0.8 2004.12.08
HardlinesTradeItemExtension				BRD Hardlines Item V 0.0.8 2004.12.08
NestingInformation				BRD Hardlines Item V 0.0.8 2004.12.08
OutOfBoxInformation				BRD Hardlines Item V 0.0.8 2004.12.08
RightOfReturnForNonSoldTrade-Item				BRD Hardlines Item V 0.0.8 2004.12.08
WarrantyInformation				BRD Hardlines Item V 0.0.8 2004.12.08

End of Report

## Business Solution Design

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### 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
Hardlines Trade-Item				Hardlines Trade Item. Details		
	isTrade-ItemRecalled			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
	model-Number			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
		unitsPer-Trade-Item	MultiMeasurement-Value	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..*

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		None	OutOfBox-Information	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	RightOf-Return-ForNon-Sold-TradeItem	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	Warranty-Information	Hardlines Trade Item. Association. Warranty	Not Available	0..1
Hardlines Trade-ItemExtension				Hardlines_ Extension_ Trade Item. Details		
		None	HardlinesTrade-Item	Hardlines_ Extension_ Trade Item. Association. Hardlines Trade Item	None	1..1
NestingInformation				Nesting. Details		
		nestingIncrement	MultiMeasurement-	Nesting. Nesting Increment_ Association. Multi-unit	Indicates the incremental height of Trade Items nested together.	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
			Value	Measure		
OutOf-BoxInformation				Out Of Box_ Dimension. Details		
		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
RightOf-Return-ForNon-Sold-Trade-				Non Sold Trade Item_ Right Of Return. Details		

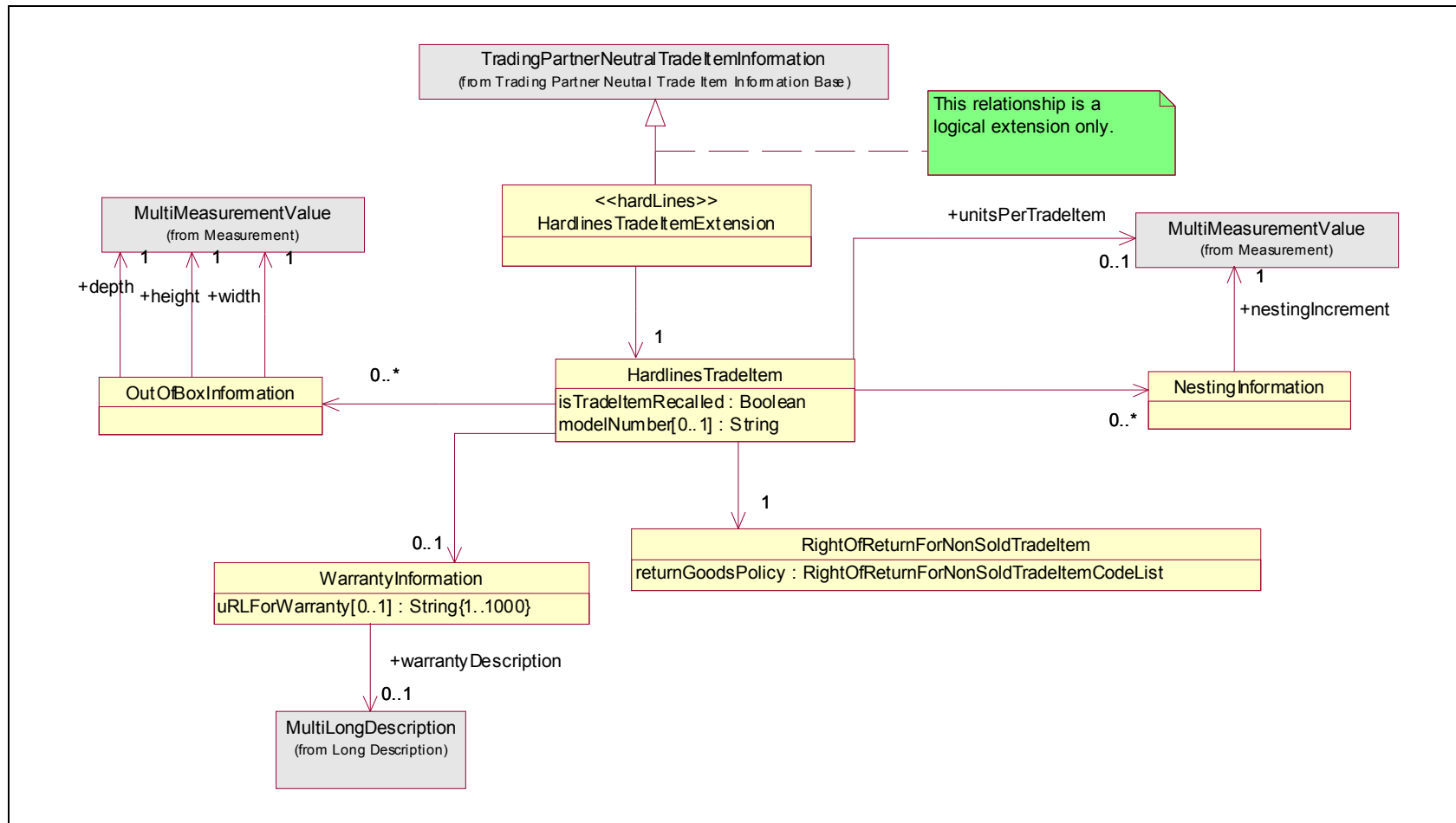
## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Item						
	return-GoodsPolicy			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-salable goods.	1..1
WarrantyInformation				Warranty. Details		
	uRLFor-Warranty			Warranty. URL For Warranty. Text	Indicates the location of the URL that contains the warranty information of the Item.	0..1
		warrantyDescription	MultiDescription	Warranty. Association. Multi-language Description	Description of the warranty information as found on the Item.	0..1

End of Report

## Business Solution Design

### 1.5.3 Class Diagrams



## Business Solution Design

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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	N/A
DESTROY_FOR_CREDIT	N/A
HOLD_FOR_INSPECTION	N/A
RETURN_FOR_CREDIT	N/A

## Business Solution Design

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### 1.6 Business Document Example

### 1.7 Implementation Considerations

### 1.8 Testing

#### 1.8.1 Pass / Fail Criteria

*Unit testing criteria for business solution.*

Number	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1					
2					
3					

#### 1.8.2 Test Data

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="#">`CASE`</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="#">`centimeter`</a>
Height	<a href="#">`150`</a> UoM <a href="#">`centimeter`</a>
Width	<a href="#">`40`</a> UoM <a href="#">`centimeter`</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
•		

### 2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

[http://www.ean-ucc.org/global\\_smp/ean.ucc\\_standards.htm](http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm).

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
  - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
  - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
  - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

[http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0\\_14f7](http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7)

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest