



# **Business Message Standard (BMS) Align/Hardlines Item**

**BMS Release: 2.2, BRG Name: GDSN**

*Issue 2.0.6, 22-Oct-2007*

## Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Align/Hardlines Item
BMS Release	2.2
BRG Name	GDSN
Document Number	Issue 2.0.6
Date Last Modified	22-Oct-2007
Status	Approved
Owner	GDSN BRG
BMS Template Version	1.8

## Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
20031007	GS1	03-000137
20070503	GS1	07-000187

## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
BRD Hardlines Item	20041027	0.0.5
BRAD For GDSN Item Maintenance Release 2	20070722	0.0.4

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20041231	0.0.1	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	N/A
20041231	2.0.0	Rob Toole	Added GDD information.		N/A
20050311	2.0.1	Eric Kauz	Updated GDD Report		N/A
20050331	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
20050331	2.0.3	John Ryu	Added extension Notes		N/A
20060711	2.0.4	Eric Kauz	Template Updates for 2.1		

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20070204	2.0.5	Giovanni Biffi	Added Code Values to the RightOfReturnForNonSoldTradeltem Code List	New code values requested on CR 06-000181	N/A
20070815	2.0.6	Giovanni Biffi	Changes corresponding to GDSN Maintenance Release 2. See appendix for detailed information.	Changes corresponding to the GDSN Maintenance Release 2	N/A

## Disclaimer

Whilst every effort has been made to ensure that the guidelines to use the GS1 standards contained in the document are correct, GS1 and any other party involved in the creation of the document HEREBY STATE that the document is provided without warranty, either expressed or implied, of accuracy or fitness for purpose, AND HEREBY DISCLAIM any liability, direct or indirect, for damages or loss relating to the use of the document. The document may be modified, subject to developments in technology, changes to the standards, or new legal requirements. Several products and company names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

# Table of Contents

<b>1. Business Domain View</b>	<b>5</b>
1.1. Problem Statement / Business Need	5
1.2. Objective	5
1.3. Audience	5
1.4. References	5
1.5. Acknowledgements	5
1.5.1. BRG Work Group	5
1.5.2. Design Team Members	6
<b>2. Business Context</b>	<b>7</b>
<b>3. Additional Technical Requirements Analysis</b>	<b>7</b>
3.1. Technical Requirements (optional)	7
<b>4. Business Transaction View</b>	<b>7</b>
4.1. Business Transaction Use Case Diagram	7
4.2. Use Case Description	7
4.3. Business Transaction Activity Diagram(s)	7
4.4. Business Transaction Sequence Diagram(s) (optional)	7
<b>5. Information Model (Including GDD Report)</b>	<b>8</b>
5.1. Data Description	8
5.2. GDD Report	9
5.3. Class Diagrams	11
5.4. Code Lists	12
<b>6. Business Document Example</b>	<b>12</b>
<b>7. Implementation Considerations</b>	<b>12</b>
<b>8. Testing</b>	<b>12</b>
8.1. Pass / Fail Criteria	12
8.2. Test Data	13
<b>9. Appendices</b>	<b>13</b>
<b>10. Summary of Changes</b>	<b>13</b>

# 1. Business Domain View

## 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.

## 1.2. 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).

## 1.3. Audience

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

## 1.4. 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

## 1.5. Acknowledgements

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

### 1.5.1. BRG Work Group

Function	Name	Company / organisation
BRG Work Group Chair	Jim Funk	S.C. JOHNSON & SON, INC.
BRG Process Manager	Andrew Hearn	GS1
BRG Participant	John Blind	Kodak
BRG Participant	Lee Bowers	Lowe's
BRG Participant	Sue Brozas	UCCnet

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

### 1.5.2. Design Team Members

Function	Name	Organisation
Modeler	John Ryu, Giovanni Biffi	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer	Eric Kauz	GS1

## 2. Business Context

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

Covered by Align\_Item Uses Cases.

### 4.2. Use Case Description

Covered by Align\_Item Uses Cases.

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

Not Applicable

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

Not Applicable

## 5. Information Model (Including GDD Report)

### 5.1. Data Description

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
HardlinesTradeltem				BRD Hardlines Item V 0.0.8 2004.12.08
	isTradeltemRecalled			BRD Hardlines Item V 0.0.8 2004.12.08
	modelNumber			BRD Hardlines Item V 0.0.8 2004.12.08
		unitsPerTradeltem	MultiMeasurementValue	BRD Hardlines Item V 0.0.8 2004.12.08
NestingInformation				BRD Hardlines Item V 0.0.8 2004.12.08
		nestingIncrement	MultiMeasurementValue	BRD Hardlines Item V 0.0.8 2004.12.08
OutOfBoxInformation				BRD Hardlines Item V 0.0.8 2004.12.08
		Depth	MultiMeasurementValue	BRD Hardlines Item V 0.0.8 2004.12.08
		Height	MultiMeasurementValue	BRD Hardlines Item V 0.0.8 2004.12.08
		Width	MultiMeasurementValue	BRD Hardlines Item V 0.0.8 2004.12.08
RightOfReturnForNonSoldTradeltem				BRD Hardlines Item V 0.0.8 2004.12.08
	returnGoodsPolicy			BRD Hardlines Item V 0.0.8 2004.12.08
WarrantyInformation				BRD Hardlines Item V 0.0.8 2004.12.08
	uRLForWarranty			BRD Hardlines Item V 0.0.8 2004.12.08
		warrantyDescription	MultiDescription	BRD Hardlines Item V 0.0.8 2004.12.08



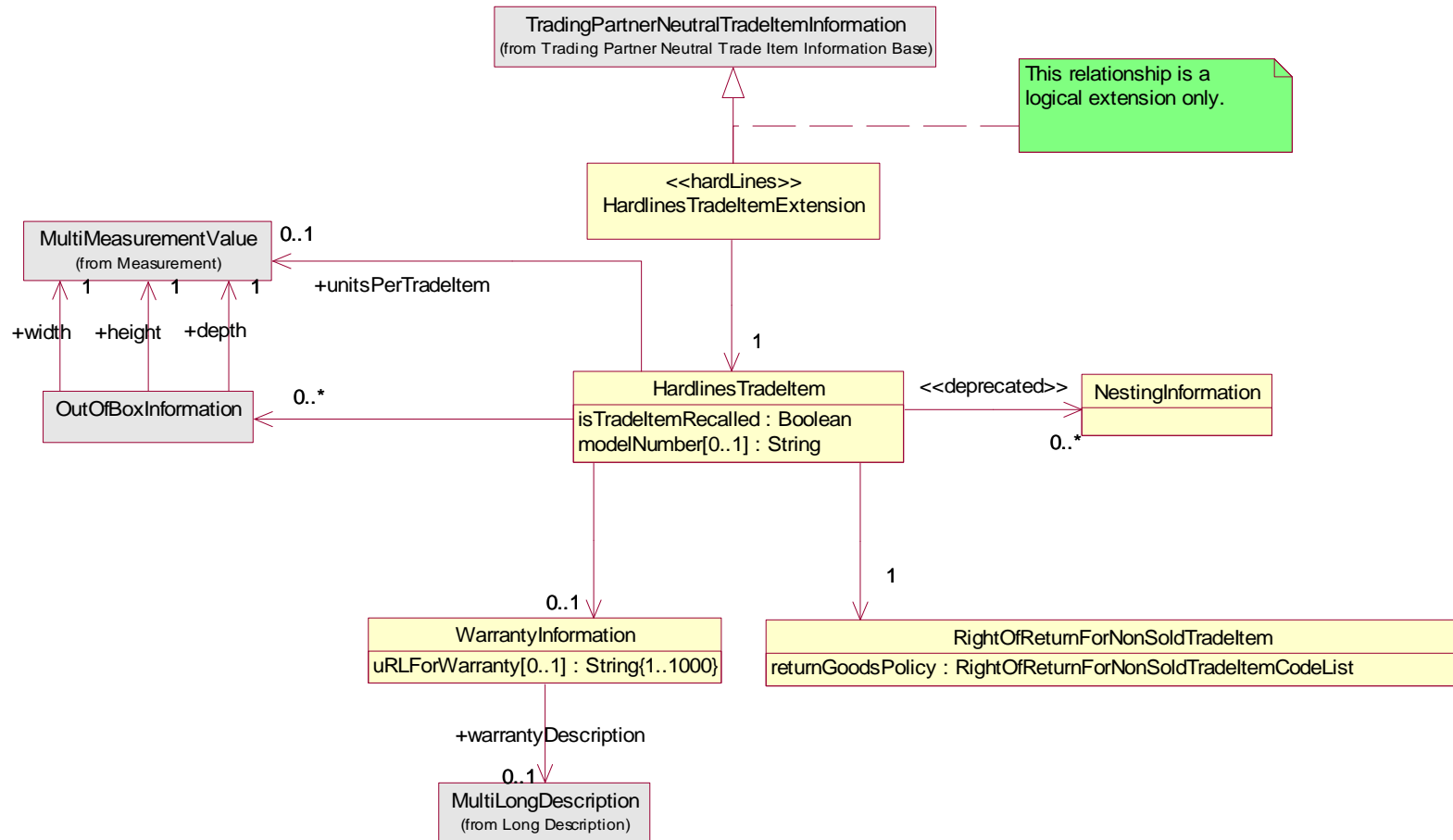
## 5.2. GDD Report

### Case Level Non-GTIN Logistics Unit 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	<deprecated>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-saleable goods.	1..1
		None	WarrantyInformation	Hardlines Trade Item. Association. Warranty	This information on WarrantyInformation for HardlinesTradeItem.	0..1
HardlinesTradeItemExtension				Hardlines_ Extension_ Trade Item. Details	The root class an extension used to transmit item attributes associated with the hardlines industry.	
		None	HardlinesTradeItem	Hardlines_ Extension_ Trade Item. Association. Hardlines Trade Item	This information on HardlinesTradeItem for HardlinesTradeItemExtension.	1..1

OutOfBoxInformation				Out Of Box_ Dimension. Details	The measurement of the actual Trade Item as used by the consumer. For items that do not require assembly but differ in size when removing from the packaging (e.g. a refrigerator) or for items that require assembly (e.g. a desk).	
		depth	MultiMeasurementValue	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 differ in size when removed from the packaging or for items that require assembly.	1..1
		height	MultiMeasurementValue	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 differ in size when removed from the packaging or for items that require assembly.	1..1
		width	MultiMeasurementValue	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 differ in size when removed from the packaging or for items that require assembly.	1..1
RightOfReturnForNonSoldTradeItem				Non Sold Trade Item_ Right Of Return. Details	The effective policy regarding the disposal 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
WarrantyInformation				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.	
	urlForWarranty			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

### 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.

## 5.4. Code Lists

Code List Name	Code List Description
RightOfReturnForNonSoldTradeItemCodeList	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.
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

Not Applicable

### 8.1. Pass / Fail Criteria

Not Applicable

## 8.2. Test Data

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

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
New code values: FULL and PARTIAL added to the RightOfReturnForNonSoldTradeItem Code List	2.0.5	CR 06 -000181
Template Migrated Updated OutOfBox definitions to allow the use of the attributes for items that require assembly. New code values: NO_POLICY added to the RightOfReturnForNonSoldTradeItem Code List	2.0.6	CR 07-000187