



Business Message Standard (BMS) Align/Hardlines Item

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2.2.0, 15-Oct-2009



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Business Requirements Document (BRAD) Reference

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BRD Hardlines Item {ref1}	27-Oct-2004	0.0.5
BRAD For GDSN Item Maintenance Release 2 {ref2}	22-Jul-2007	0.0.4
BRAD For GDSN Item Maintenance Release 3 {ref3}	24-Mar-2008	0.0.2
BRAD For GDSN Item Maintenance Release 4 {ref4}	14_Sept_2009	0.0.3

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	<ul style="list-style-type: none"> Changes corresponding to GDSN Maintenance Release 2. See appendix for detailed information. 	Changes corresponding to the GDSN Maintenance Release 2	N/A
29-May-2008	2.1.0	Eric Kauz	<ul style="list-style-type: none"> Changes corresponding to GDSN Maintenance Release 3. See appendix for detailed information. 	Changes corresponding to the GDSN Maintenance Release 3	N/A
15-Oct-2009	2.2.0	Eric Kauz	<ul style="list-style-type: none"> isFrostResistant 	Changes corresponding to the GDSN Maintenance Release 3	

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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
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1.5.2. Design Team Members

Function	Name	Organisation
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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)

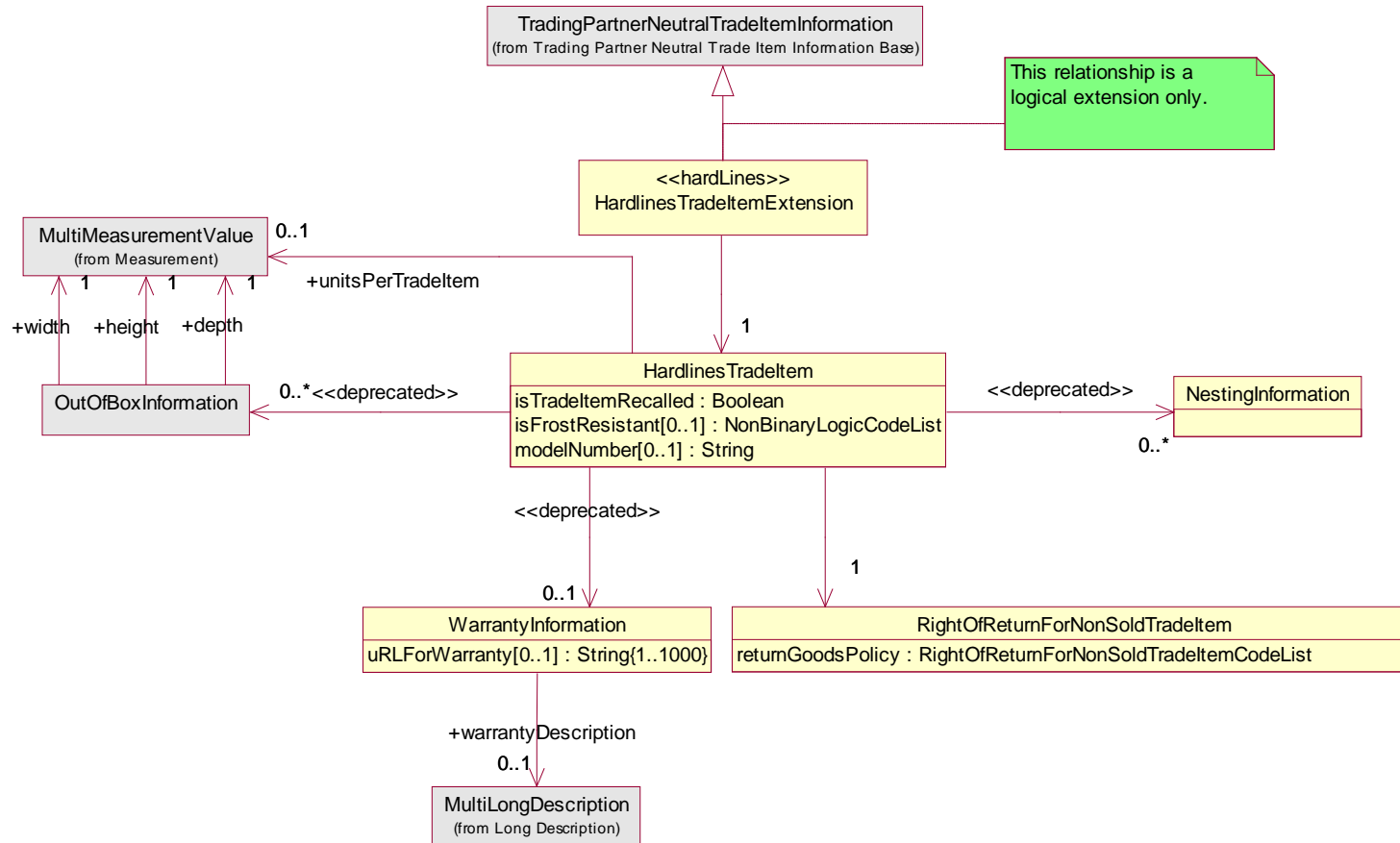
5.1. GDD Report

Case Level Non-GTIN Logistics Unit Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirement	Facets
HardlinesTradeItem				Hardlines Trade Item. Details	A collection of information related to hardware and housewares products.			
	isFrostResistant			Hardlines Trade Item. Frost Resistant. Nonbinary Logic_Code	Indicates if the trade item is resistant to frost and can thus be used outside.	0..1	{ref4}	
	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	{ref1}	
	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	{ref1}	
		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	{ref1}	
		None	<deprecated> NestingInformation	Hardlines Trade Item. Association. Nesting	Not Available	0..*	{ref1}	
		None	<deprecated> 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..*	{ref1}	

		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	{ref1}	
		None	<deprecated>WarrantyInformation	Hardlines Trade Item. Association. Warranty	This information on WarrantyInformation for HardlinesTradeItem.	0..1	{ref1}	
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		
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	{ref1}	
<deprecated>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.			
	<deprecated>URLForWarranty			Warranty. URL For Warranty. Text	Indicates the location of the URL that contains the warranty information of the Item.	0..1		
		<deprecated>warrantyDescription	MultiDescription	Warranty. Association. Multi-language Description	Description of the warranty information as found on the Item.	0..1	{ref1}	Min 1 Max 1000

5.2. 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
Warranty Information	Trade Item Warranty Information

5.3. 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, damaged 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

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
Deprecated Warranty Information and Out Of Box Information	2.1.0 (V 2.3)	
isFrostResistant	2.2.0 (V 2.7)	