

# **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.ccy)*



### 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-SoldTradeltem Code List | New code values requested on CR 06-000181 | N/A |

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## 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 |

## Business Solution Design

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### 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          |



## Business Solution Design

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### 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

## Business Solution Design

### 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<br>0.0.8<br>2004.12.08 |
|                     | isTradeltemRe-called |                     |                        | BRD Hardli-nes Item V<br>0.0.8<br>2004.12.08 |
|                     | modelNumber          |                     |                        | BRD Hardli-nes Item V<br>0.0.8<br>2004.12.08 |
|                     |                      | unitsPerTradeltem   | MultiMeasurement-Value | BRD Hardli-nes Item V<br>0.0.8<br>2004.12.08 |
| NestingInformation  |                      |                     |                        | BRD Hardli-nes Item V<br>0.0.8<br>2004.12.08 |
|                     |                      | nestingIncrement    | MultiMeasurement-Value | BRD Hardli-nes Item V<br>0.0.8<br>2004.12.08 |
| OutOfBoxInformation |                      |                     |                        | BRD Hardli-nes Item V                        |

## Business Solution Design

|                                  |                   |                     |                        |   |
|----------------------------------|-------------------|---------------------|------------------------|---|
|                                  |                   |                     |                        | 0.0.8<br>2004.12.08                         |
|                                  |                   | Depth               | MultiMeasurement-Value | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
|                                  |                   | Height              | MultiMeasurement-Value | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
|                                  |                   | Width               | MultiMeasurement-Value | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
| RightOfReturnForNonSoldTradeItem |                   |                     |                        | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
|                                  | returnGoodsPolicy |                     |                        | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
| WarrantyInformation              |                   |                     |                        | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
|                                  | uRLForWarranty    |                     |                        | BRD Hardlines Item V<br>0.0.8<br>2004.12.08 |
|                                  |                   | warrantyDescription | MultiDescription       | BRD Hardlines Item V<br>0.0.8               |

## Business Solution Design

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|  |  |  |  |            |
|--|--|--|--|------------|
|  |  |  |  | 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 HardlinesTradeltemExtension.   | 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-  |      |

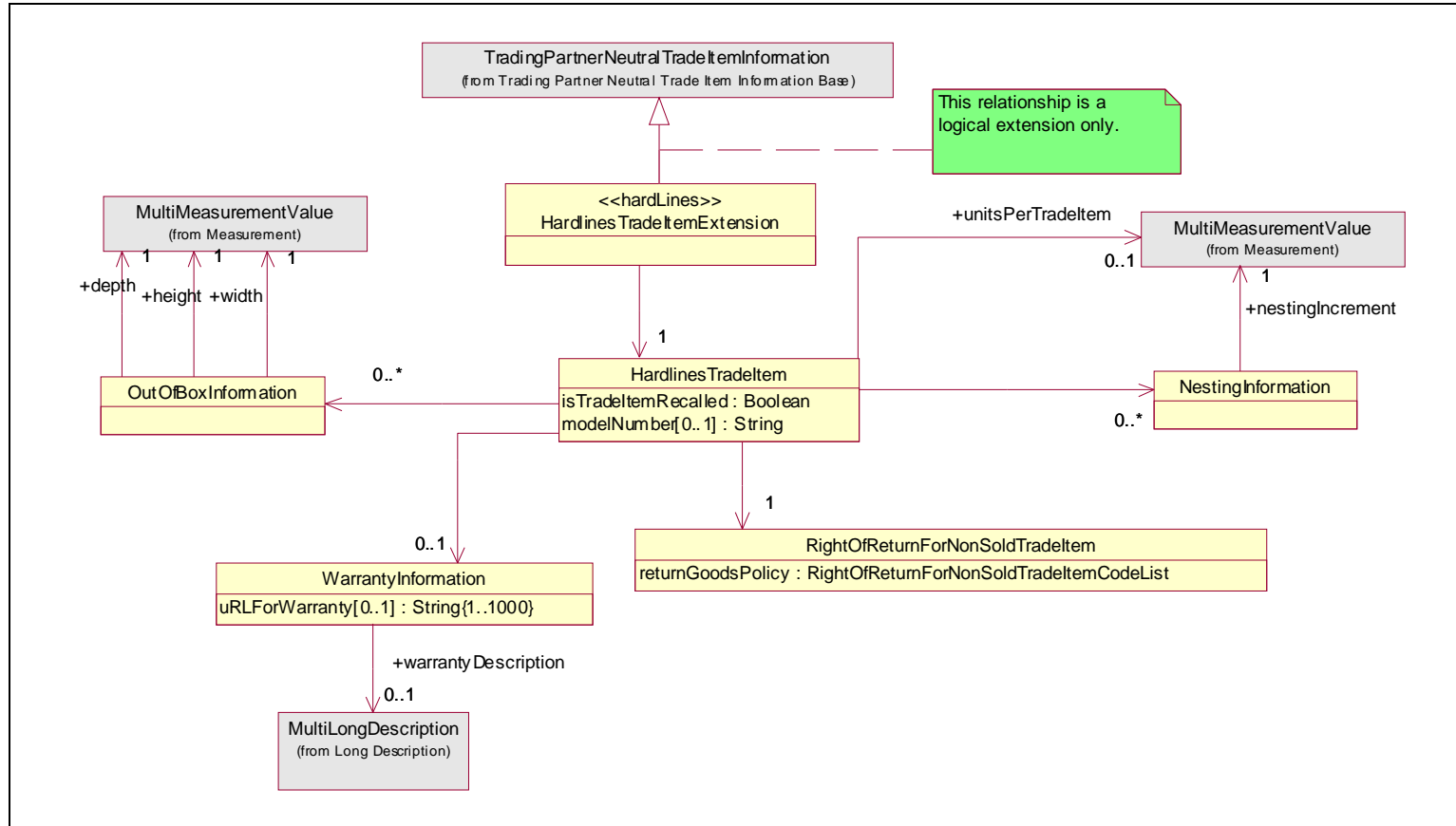


## Business Solution Design

|                           |                   |                      |                     |   |   |      |
|---------------------------|-------------------|----------------------|---------------------|---|---|------|
| 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-cription   | Description of the warranty information as found on the Item.   | 0..1 |

End of Report

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                    | 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

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

### 1.9 Appendices

#### 1.10 Summary of Changes

| Change   | BMS Ver-<br>sion | Associated CR<br>Number |
|--|------------------|-------------------------|
| <ul style="list-style-type: none"><li>New code values: FULL and PARTIAL added to the RightOfReturnForNonSold-Tradeltem 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