

# **Business Message Standard (BMS)**

**for**

**Align/Trade Item Extension  
Apparel and Home Fashions**

**BRG: Align**

**BMS Release: 2.1**

**Document Version: 3.0.3**

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### Change Request Reference

<b>Refer to Change Request (CR) Number(s):</b>	02-000001, 02,000168, 03-000186
<b>CR Submitter(s):</b>	Sears, Roebuck and Co (02-000001) CCG, EAN Germany (02-000168) QRS Corporation (03-000186)
<b>Date of CR Submission to GSMP:</b>	January 8, 2003 August 2, 2003 December 9, 2003

### Business Requirements Document (BRAD) Reference

<b>BRAD Title:</b> BRD Trade Item Extension – Apparel & Home Fashions – Business Requirements Document
<b>BRAD Date:</b> 29/10/2004
<b>BRAD Version:</b> 2.2

### Document Summary

<b>Document Title:</b>	BMS for Align/Trade Item Extension Apparel and Home Fashions
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### Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31-12-2004	3.0.0	Noel Yavo	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	
11-03-2005	3.0.1	Eric Kauz	Updated GDD report for 2.0.1 release.		
17-07-2006	3.0.2	Brian Bennett	Updated Document for 2.1 release	Update Definitions of elements within the GDD report section	
25-04-2007	3.0.3	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	

# Business Message Standard

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### 1 Business Solution

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

There are two main business needs identified:

1) In the current EAN.UCC Business Messages, there is not a Trade Item extension defined to support the business needs of the Apparel and Home Fashions industry sector.

2) For many lines of merchandise it is not efficient to apply the existing attributes in the Trade Item model at a consumer GTIN level only. Attributes need to be specified at the Style/Model level for Trading Partners to avoid having to send duplicate data

##### 1.1.2 Objective

*To supply the detail design of the Trade Item Extension for Apparel and Home Fashion business transactions needed to meet the requirements of the referenced BRAD(s).*

##### 1.1.3 Audience

Expected users of this Business Requirements document include any participant in the global supply chain such as retailers, manufacturers, service providers and other third parties.

##### 1.1.4 Artefacts

Artefact name	State	Artefact / State description
CR # 02-000001		Definition of a higher level of processing like Style/Model by grouping the essential GTIN information to eliminate the duplication of the communication effort needed to send all GTIN data attributes.
CR # 02-000168		Definition of new attributes needed to support the Apparel/Home Fashion industry extension.
CR # 03-000186		Definition of new attributes needed to support the Apparel/Home Fashion industry extension.
Business Message Standard for Data Synchronization Data Model for Trade Item – Data Definition V1.3, July 2003.		Definition of the data elements necessary for the communication related to a trade item or service between trading partners, using the GTIN as the main identification key.
Business Requirement Document for Trade Item Extension – Apparel and Home Fashions		<u>Output document.</u> Includes the definition of the business requirements, including the data necessary to support the business process, the incorporation of modelling

		diagrams (UML) that describe the data hierarchy, and any implementation considerations.
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### 1.1.5 References

Reference Name	Description
Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004	The Business Requirement Document released for version 2.2 of the BMS Standard
EAN.UCC Global Business Model (Process and Data), October 1999	
Business Message Standard for Data Synchronization Data Model for Trade Item – Data Definition v1.3, July 2003.	
Simple eb(electronic business), March 2000	
GEDI PRICAT	
VICS EDI 832 Price Sales Catalog	
EANCOM <sup>®</sup> PRICAT	
VICS EDI - Trade Item Identification and Communication Guidelines, TIIC	

### 1.1.6 Acknowledgements

#### 1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Member, Work Team Chair	Ichihara, Hideki	DCC Japan (EAN Japan)
BRG Member	Laskero, Nancy	Sears Roebuck and Co. USA
BRG Member	Rodriguez, Julie	Levi Strauss & Co. USA
BRG Member	Vessey, Patricia	Best Buy, USA

#### 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 (*where applicable*)

Function	Name	Company / organisation
Participant	Bowers, Lee	Lowe's Company
Participant	Costello, Aidan	QRS Corporation
Participant	Elvin, Frank	Elvin Safety Supply, USA
Participant	Fassberg, Robert	QRS Corporation
Participant	Hawkins, Bruce	Wal-Mart Stores Inc.
Participant	Kaegebein, Caren	VF Corporation, North America
Participant	Kasper, Sascha	SINFOS GmbH, Germany
Participant	Sadiwnyck, Mike	ECCC, Canada
Participant	Schumacker, Alex	Global Exchange Services, USA
Participant	Sykes, Jim	Abaris, USA

#### 1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Yavo, Noel	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer		

## Business Solution Design

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### 1.2 Business Context

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

Context Category	Value(s)
Industry	Apparel, Home Fashions
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



### 1.4 Business Transaction View

The Trade Item Extension for Apparel and Home Fashions details the data needed to be used in conjunction with the Trade Item model. The Work Team was chartered to define the business requirements and this has been achieved by providing the data definition for Apparel and Home Fashions.

Note that this model may apply to other industry sectors beyond Apparel and Home Fashions.

#### 1.4.1 Business Transaction Use Case Diagram

#### 1.4.2 Use Case Description

Use Case ID	UC-1										
Use Case Name	Exchange of Item Data										
Use Case Description	Trading partners agree and exchange Item Data for the selected styles to be communicated (commonly called in Apparel 'Line preview').										
Actors (Goal)	<p>The goal of the actors involved is to exchange Item Level information for the Apparel and Home Fashions vertical. The items to be exchanged are determined by collaboration between the Actors.</p> <ul style="list-style-type: none"><li>• Seller: Manufacturer or supplier of the item.</li><li>• Buyer : Retailer or distributor of the item</li><li>• Third Party : Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item, serving as an agent for a seller or a buyer.</li></ul>										
Performance Goals	None										
Preconditions	The price data alignment process begins when a trading relationship exists between buyer and seller										
Post conditions	The end-state of the Item Alignment process occurs when the parties have achieved item data alignment.										
Scenario	<p><b>Begins when...</b> Trading partners agree to do business together, which means to establish a commercial relationship.</p> <p><b>Continues with...</b></p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Seller, Buyer or Third Party</td><td>Trading Partners review the product offerings at the style level to determine what information to exchange. Trading partners agree to the selected styles to be communicated (commonly called in Apparel 'Line preview'). The seller will load the style information and the associated GTIN information into the system.</td></tr><tr><td>2</td><td></td><td>Trading Partners agree to exchange the agreed Party and</td></tr></table>		Step #	Actor	Activity Step	1	Seller, Buyer or Third Party	Trading Partners review the product offerings at the style level to determine what information to exchange. Trading partners agree to the selected styles to be communicated (commonly called in Apparel 'Line preview'). The seller will load the style information and the associated GTIN information into the system.	2		Trading Partners agree to exchange the agreed Party and
Step #	Actor	Activity Step									
1	Seller, Buyer or Third Party	Trading Partners review the product offerings at the style level to determine what information to exchange. Trading partners agree to the selected styles to be communicated (commonly called in Apparel 'Line preview'). The seller will load the style information and the associated GTIN information into the system.									
2		Trading Partners agree to exchange the agreed Party and									

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			Trade Item information based on a standardized format. In this activity, the data has been accepted by both parties and Party and Trade Item data alignment has been achieved.
	3		
Ends when the business message data has been accepted by the trading partners.			
Alternative Scenario	(any alternatives to the above scenario)		
	Step #	Actor	Activity Step
Related Requirements			
	1		
Related Rules			

### 1.4.3 Business Transaction Activity Diagram(s)

N/A

### 1.4.4 Business Transaction Sequence Diagram(s)

N/A

## Business Solution Design

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### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description

Class	Attribute	Association	Secondary Class	Related Requirements
ApparelAndHomeFashionsExtension				Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	nonMarkedTradeItem-Components			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	numberOfPackagesFor-SetPiecesGTIN			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	numberOfPiecesInSet			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	styleDescription			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
		None	ClothingInformation	
		None	Hanger	
ClothingInformation				Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	collarType			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	sleeveType			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
		clothingCut	MultiDescription	
Hanger				Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	doesItemComeWith-Hanger			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004
	standardTypeHanger-Agency			Trade Item Extension for Apparel and Home Fashion Business Requirements Document, Version 2.2, October 29, 2004

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### 1.5.2 GDD Report :

#### Apparel And Home Fashions Extension

Class	Attribute	Association	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ApparelAndHomeFashionsExtension				Apparel_ Home Fashions_ Extension_ Trade Item. Details	The root class for an extension containing details specific to apparel and home fashion trade items.	
	nonMarkedTradeItemComponents			Apparel_ Home Fashions_ Extension_ Trade Item. Non Marked Trade Item Components_ Description. Text	This attribute indicates a non-saleable part of the trade item. It is used to specify components of a trade item that cannot be sold separately.	0..1
	numberOfPackagesForSetPiecesGTIN			Apparel_ Home Fashions_ Extension_ Trade Item. Packages For Set Pieces GTIN_ Quantity. Numeric	The total number of separately packaged components comprising a single trade item.	0..1
	numberOfPiecesInSet			Apparel_ Home Fashions_ Extension_ Trade Item. Pieces In Set_ Quantity. Numeric	This element identifies the number of individual components in a grouping of merchandise that is sold together as a single trade item. It is used to describe the whole-parts relationship, which can be of different types.	0..1
	styleDescription			Apparel_ Home Fashions_ Extension_ Trade Item.	An attribute that classifies GTINs that share many of the same characteristics (attribute values) that does NOT	1..1

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				Style_ Description. Text	vary by GTIN, and are presented by the supplier as a single merchandise selection for the buyer.	
		None	ClothingInformation	Apparel_ Home Fashions_ Extension_ Trade Item. Association. Apparel_ Product Characteristic	This information on ClothingInformation for ApparelAndHomeFashionsExtension.	0..1
		None	Hanger	Apparel_ Home Fashions_ Extension_ Trade Item. Association. Hanger_ Display Equipment	This information on Hanger for ApparelAndHomeFashionsExtension.	0..1
ClothingInformation				Apparel_ Product Characteristic. Details	A grouping of attributes detailing clothing style.	
	collarType			Apparel_ Product Characteristic. Collar Type_ Description. Text	A code that identifies the type of collar on the garment.	0..1
	sleeveType			Apparel_ Product Characteristic. Sleeve Type_ Description. Text	A free text description of the garment sleeve type.	0..1
		clothingCut	MultiDescription	Apparel_ Product Characteristic. Clothing Cut. Multi-language Description	Supplemental information to indicate the clothing cut or silhouette make of the garment. For example: silhouette details for a pair of jeans such as boot cut, or loose fit, "Comfort Fit".	0..1
Hanger				Hanger_ Display Equipment. Details	Contains information regarding any hanger included with product.	
	doesItemComeWith-			Hanger_ Display	A boolean value that indicates	1..1

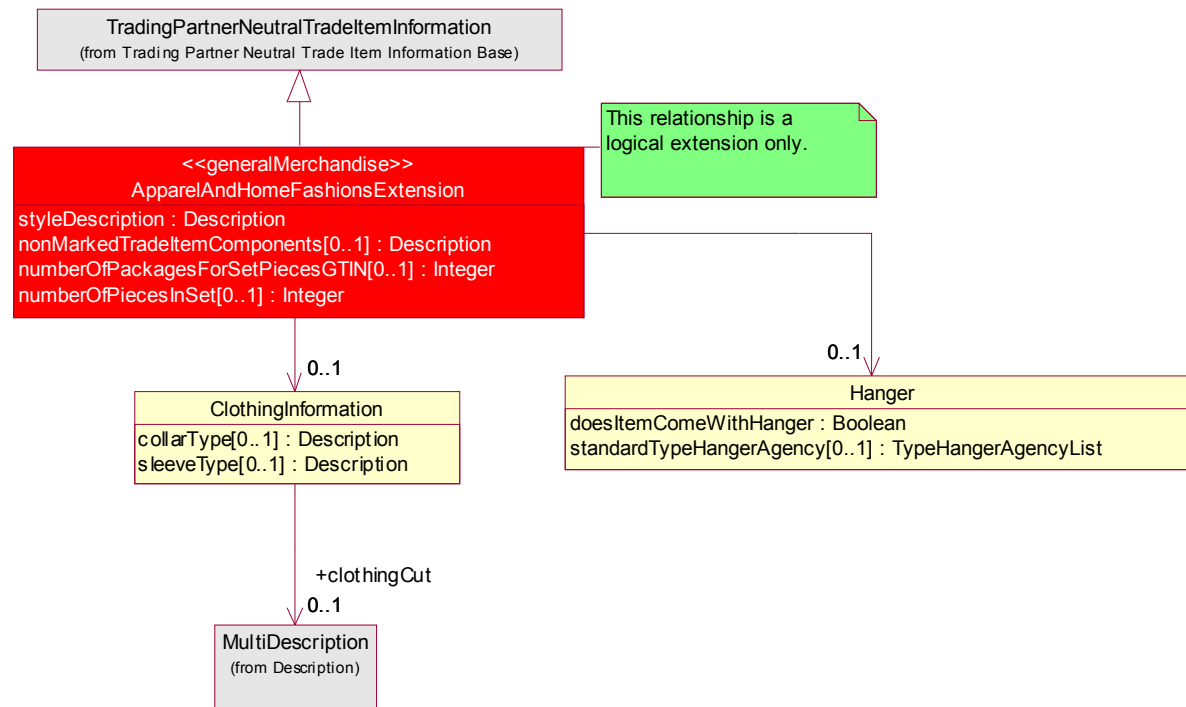
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	Hanger			Equipment. Trade Item_ Comes With Hanger. Indicator	whether or not the trade item comes with a hanger.	
	standardTypeHanger-Agency			Hanger_ Display Equipment. Hanger Type_ Standard Agency. Type Hanger Agency List_ Code	A code that identifies the agency that specifies industry standards for hangers.	0..1

## Business Solution Design

### 1.5.3 Class Diagrams



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### 1.5.4 Code Lists

Code List Name	Code List Description
TypeHangerAgencyList	
Code Name	Code Description
VICS	N/A
SKRS	N/A



### 1.6 Business Document Example

N/A

### 1.7 Implementation Considerations

Below are notes that the Work Team captured during the development of the Business Requirements Document. They regard issues that relate mostly to implementation. The Work Team is directing these to the Align Data BRG for advice on how best to address.

In reviewing the published BMS for Trade Item v.1.3.1, it was noted that the Mandatory/Optional condition of some of the attributes need to be discussed further and possibly modified. Additionally, some modifications to attributes definitions might be necessary.

Data Element	Current Text	Proposed Change
nameOfInformation-Provider	Attribute is mandatory when Information Provider is provided.	Why is this mandatory if a GLN is provided? Shouldn't the GLN be enough to identify the party? Especially since some companies have several versions of their name (e.g. ABC versus ABC, Buck and Co.)
nameofBrandOwner	Attribute is mandatory when 'brandOwner' is provided.	Why is this mandatory if a GLN is provided? Shouldn't the GLN be enough to identify the party? Especially since some companies have several versions of their name.
manufacturer	Attribute is optional.	manufacturer should be mandatory. This data element is required to address certain laws - Fair Labor Standards Act, for example.
packagingMarking Class	The class Packaging Marking is mandatory	Class should be optional. The attributes do not apply to items that don't have packaging. Some apparel, for example.
depth	Attribute is mandatory.	Depth would be difficult to specify and not relevant for certain items. Hanging apparel, for example. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.
height	Attribute is mandatory.	Height would be difficult to specify and not relevant for certain items. Folded apparel, for example. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.

Data Element	Current Text	Proposed Change
width	Attribute is mandatory	It would be difficult to specify and not relevant for certain items. Folded apparel, for example. If this is mandatory, it should have a note similar to depth that states that it is measured as consumer views it. May still be a problem if apparel could be displayed hanging or folded. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.
retailPriceOnTradeItem	The retail price as marked on the trade item package. This element is dependent on a value of "yes" for element priceOnPackIndicator.	The retail price as marked on the trade item package, label or 'tag'. This field is dependent on a value of "yes" for field priceOnPackIndicator.
stackingFactor	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.	A factor that determines the maximum stacking for the product in storage and transport? Indicates the number of levels the product may be stacked.
stackingWeightMaximum	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used to allow user to know by weight how to stack different trade item one on top of the other.	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other.
pegHorizontal	Used to indicate the horizontal distance from the edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard.	Add the following text: <u>Example:</u> Fashion accessories
pegVertical	Used to indicate the vertical distance from the edge of the trade item to the centre of the hole into which the peg is inserted when the trade item is displayed on a pegboard. The hole into which the peg is inserted when the trade item is displayed on a pegboard. The measurement is always taken from the top edge of the trade item to the hole.	Add the following text: <u>Example:</u> Fashion accessories

Data Element	Current Text	Proposed Change
sizeCodeListAgency	Current data element does not include the needed code values.	It should be a code list with the following values: 1- National Retail Federation –Standard Colour and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a> 2- Assigned by Buyer 3- Assigned by Seller
sizeCodeValue	<b>Definition:</b> The value from a industry specific code list required to identify the size of the trade item. Can be a combination of values which fully describe the trade item size (32 waist, 36 inseam)	Definition should read: 'The code value from the list identified in sizeCodeListAgency'.
descriptiveSize	<b>Definition:</b> An alphanumeric size factor the brand owner wishes to communicate to the consumer. IE Jumbo, Capri, Full Length, Maxi	Definition should read: 'The text description of the code and sizeCodeValue'.
colorCodeListAgency	Current data element does not include the needed code values.	It should be a code list with the following values:
		1- National Retail Federation –Standard Colour and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a>
		2 - PANTONE MATCHING SYSTEM  The definitive international reference for selecting, specifying, matching and controlling ink colours. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colours on coated, uncoated and matte stock, shows corresponding printing ink formulas for each colour, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control.  Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a>

Data Element	Current Text	Proposed Change
		<p>3- PANTONE Process Colour System® Provides a comprehensive palette of more than 3,000 colours achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Colour to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Colour Reference Guides for the graphic arts include metallic, pastels, tints, duotones, film and foil.</p> <p>The PANTONE Hexachrome® Color System Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p>
		<p>4-The PANTONE Hexachrome® Color System</p> <p>A six-colour ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colours than standard four-color process printing</p> <p>Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p>
colorCodeListAgency	Current data element does not include the needed code values.	<p>It should be a code list with the following values:</p> <p>1- National Retail Federation –Standard Colour and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a></p> <p>2 - PANTONE MATCHING SYSTEM</p> <p>The definitive international reference for selecting, specifying, matching and controlling ink colours. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colours on coated, uncoated and matte stock, shows corresponding printing ink formulas for each colour, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control.</p> <p>Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p>

Data Element	Current Text	Proposed Change
		<p>3- PANTONE Process Colour System®</p> <p>Provides a comprehensive palette of more than 3,000 colours achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Colour to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Colour Reference Guides for the graphic arts include metallic, pastels, tints, duotones, film and foil.</p> <p>The PANTONE Hexachrome® Colour System Pantone® Inc</p> <p><a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>4-The PANTONE Hexachrome® Color System</p> <p>A six-colour ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colours than standard four-color process printing</p> <p>Pantone® Inc</p> <p><a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>5 - PANTONE TEXTILE Color System®</p> <p>A vital tool for designers in the apparel, home furnishings and interior design industries for selecting and specifying color used in the manufacture of textiles and fashion. The System - consisting of 1,932 colors in cotton or paper format - is ideal for assembling creative palettes and conceptual color schemes, and for providing</p> <p>color communication and control in the manufacturing process. In January of 2001 Pantone Inc. included the NRF Color Codes into the PANTONE TEXTILE Color System.</p> <p>Pantone® Inc</p> <p><a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>6-Assigned by Buyer</p>

Data Element	Current Text	Proposed Change
		7- Assigned by Seller

### 1.8 Notes

Below are notes that the Work Team captured during the development of the Business Requirements Document. They regard issues that relate mostly to implementation. The Work Team is directing these to the Align Data BRG for advice on how best to address.

In reviewing the published BMS for Trade Item v.1.3.1, it was noted that the Mandatory/Optional condition of some of the attributes need to be discussed further and possibly modified. Additionally, some modifications to attributes definitions might be necessary.

Data Element	Current Text	Proposed Change
nameOfInformation-Provider	Attribute is mandatory when Information Provider is provided.	Why is this mandatory if a GLN is provided? Shouldn't the GLN be enough to identify the party? Especially since some companies have several versions of their name (e.g. ABC versus ABC, Buck and Co.)
nameOfBrandOwner	Attribute is mandatory when 'brandOwner' is provided.	Why is this mandatory if a GLN is provided? Shouldn't the GLN be enough to identify the party? Especially since some companies have several versions of their name.
manufacturer	Attribute is optional.	manufacturer should be mandatory. This data element is required to address certain laws - Fair Labour Standards Act, for example.
packagingMarking Class	The class Packaging Marking is mandatory	Class should be optional. The attributes do not apply to items that don't have packaging. Some apparel, for example.

<b>Data Element</b>	<b>Current Text</b>	<b>Proposed Change</b>
depth	Attribute is mandatory.	Depth would be difficult to specify and not relevant for certain items. Hanging apparel, for example. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.
height	Attribute is mandatory.	Height would be difficult to specify and not relevant for certain items. Folded apparel, for example. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.
width	Attribute is mandatory	It would be difficult to specify and not relevant for certain items. Folded apparel, for example. If this is mandatory, it should have a note similar to depth that states that it is measured as consumer views it. May still be a problem if apparel could be displayed hanging or folded. This data element should be optional in order to use the Non-package Item Dimensions class. If this class is not specified, then depth, height and width are required.
retailPriceOnTradeItem	The retail price as marked on the trade item package. This element is dependent on a value of "yes" for element priceOnPackIndicator.	The retail price as marked on the trade item package, label or 'tag'. This field is dependent on a value of "yes" for field priceOnPackIndicator.
stackingFactor	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.
stackingWeightMaximum	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used to allow user to know by weight how to stack different trade item one on top of the other.	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other.

Data Element	Current Text	Proposed Change
pegHorizontal	Used to indicate the horizontal distance from the edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard.	Add the following text: <u>Example:</u> Fashion accessories
pegVertical	Used to indicate the vertical distance from the edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard. The hole into which the peg is inserted when the trade item is displayed on a pegboard. The measurement is always taken from the top edge of the trade item to the hole.	Add the following text: <u>Example:</u> Fashion accessories
sizeCodeListAgency	Current data element does not include the needed code values.	It should be a code list with the following values: 1- National Retail Federation – Standard Color and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a> 2- Assigned by Buyer 3- Assigned by Seller
sizeCodeValue	<b>Definition:</b> The value from a industry specific code list required to identify the size of the trade item. Can be a combination of values which fully describe the trade item size (32 waist, 36 inseam)	Definition should read: 'The code value from the list identified in size-CodeListAgency'.
descriptiveSize	<b>Definition:</b> An alphanumeric size factor the brand owner wishes to communicate to the consumer. IE Jumbo, Capri, Full Length, Maxi	Definition should read: 'The text description of the code and sizeCodeValue'.
colorCodeListAgency	Current data element does not include the needed code values.	It should be a code list with the following values:



Data Element	Current Text	Proposed Change
		1- National Retail Federation – Standard Color and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a>
		2 - PANTONE MATCHING SYSTEM The definitive international reference for selecting, specifying, matching and controlling ink colors. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colors on coated, uncoated and matte stock, shows corresponding printing ink formulas for each color, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control. Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a>
		3- PANTONE Process Color System® Provides a comprehensive palette of more than 3,000 colors achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Color to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Color Reference Guides for the graphic arts include metallics, pastels, tints, duotones, film and foil. The PANTONE Hexachrome® Color System Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a>
		4-The PANTONE Hexachrome® Color System A six-color ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colors than standard four-color process printing Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a>
colorCodeListAgency	Current data element does not include the	It should be a code list with the following values:

<b>Data Element</b>	<b>Current Text</b>	<b>Proposed Change</b>
	needed code values.	<p>1- National Retail Federation – Standard Color and Size Codes. This handbook provides guidelines for use in retailers' and vendors' merchandising and communication systems. <a href="http://www.nrf.com">http://www.nrf.com</a></p> <p>2 - PANTONE MATCHING SYSTEM The definitive international reference for selecting, specifying, matching and controlling ink colors. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colors on coated, uncoated and matte stock, shows corresponding printing ink formulas for each color, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control.  Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>3- PANTONE Process Color System® Provides a comprehensive palette of more than 3,000 colors achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Color to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Color Reference Guides for the graphic arts include metallics, pastels, tints, duotones, film and foil. The PANTONE Hexachrome® Color System Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>4-The PANTONE Hexachrome® Color System A six-color ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colors than standard four-color process printing</p>

Data Element	Current Text	Proposed Change
		<p>Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>5 - PANTONE TEXTILE Color System® A vital tool for designers in the apparel, home furnishings and interior design industries for selecting and specifying color used in the manufacture of textiles and fashion. The System - consisting of 1,932 colors in cotton or paper format - is ideal for assembling creative palettes and conceptual color schemes, and for providing color communication and control in the manufacturing process. In January of 2001 Pantone Inc. included the NRF Color Codes into the PANTONE TEXTILE Color System.</p> <p>Pantone® Inc <a href="http://www.pantone.com">http://www.pantone.com</a></p> <p>6-Assigned by Buyer</p> <p>7- Assigned by Seller</p>
		<p>6-Assigned by Buyer</p> <p>7- Assigned by Seller</p>

### 1.9 Testing

#### 1.9.1 Pass / Fail Criteria

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

### 1.9.2 Test Data

Attribute	Value
numberOfPackagesForSetPiecesGTIN	1
numberOfPiecesInSet	1
styleDescription	A 100% cotton shirt that has the same buttons, collar type, sleeve length and fabric that comes in several colours and sizes.
collarType	"Turtleneck"
sleeveType	"long"
doesItemComeWithHanger	"True"
standardTypeHangerAgency	VICS

## Business Solution Design

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### 1.10 Appendices

### 1.11 Summary of Changes

Change	BMS Ver- sion	Associated CR Number
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### 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