



Business Message Standard (BMS) Extension Specifics Technical Characteristics

BMS Release: 2.2, BRG Name: Align

Issue 0.0.1, 05-Oct-2007

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Extension Specifics Technical Characteristics
BMS Release	2.2
BRG Name	Align
Document Number	Issue 0.0.1
Date Last Modified	05-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):
03-Jun-2004	Uniform Code Council, Inc.	04-000113

Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
Extension Specifics Technical Characteristics	11-Aug-2005	0.10

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
5-Jul-06	0.0.1	Brian Bennett	Initial Creation of document. Converted BRAD to BMS.	BMS developed from BRD created by Rob Toole	

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

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

1. Business Domain View

1.1. Problem Statement / Business Need

Technical Data alignment between partners of the supply chain (salesmen, buyers and logistic actors) is an essential condition in the automation of the administrative treatments.

This alignment crosses the sending and receiving of fact sheets containing, besides basic data and those relative to the hierarchy of products, specific technical characteristics in finished or semi finished products, allowing the specific item information needs of buyers and salesmen to be met.

This basic information and the hierarchy are already organized and structured.

The objective of these works is to allow the standardization and the structuring of the specific technical characteristics of items.

These fact sheets allow the sending of the technical characteristics on behalf of the manufacturer without being seized again by the distributor.

It allows users to look for products with regard to a range, or a feature, to use this information for an internal custom (i.e. commercial, after sale services, etc.), or an external usage: (i.e. spread the information with the partners and the end users).

The information is thus right, precise and up to date; the risk of error is reduced and the adaptation of the data allows an automation of the updates and the data processing.

Today, these technical characteristics are sent in EDI by using the group of segments **CCI-CAV-MEA** of the message **PRODAT**. The users want to exchange this information in XML.

1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of BRD: Extension Specifics Technical Characteristics

1.3. Audience

Every manufacturer, retailer or trader involved in the manufacture, the sale or the refer-encing of products with the need to spread or to receive specific technical information. Today, the concerned sectors are the do-it-yourself, construction, household equipment (large domestic appliance and consumer electronics, furniture), the textile (textile industry) and the wines and the spirit, disc and soon automotive with the MRO and others.

Example of sector concerned: Building and construction sector wants to use it as a Dic-tionary for the whole sector.

1.4. References

Reference Number	Reference Name	Description
1	BRW for XML Extension Specifics Technical Characteristics	
2	CR 03-0027	Description of the business needs

Reference Number	Reference Name	Description
3	Dicalis list of natures.doc	List of products for which EAN FRANCE and its members have already defined and coded the specific technical characteristics
4	Member list.xls	Non exhaustive list of users
5	BRD: Extension Specifics Technical Characteristics	Previous BRD Document

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 Chair	Jim Funk	S.C. JOHNSON & SON, INC.
BRG Chair	Vic Hansen	UNLIVER – LEVER FABERGE LTD.
BRG Chair	Eduardo Tovar	PROCTER & GAMBLE COMPANY
BRG Member	Javier Arias	GS1 SPAIN
BRG Member	Neale Austen	EAN AUSTRALIA
BRG Member	Michael Bammer	CVS PHARMACY, INC.
BRG Member	Giovanni Biffi	IAC – EAN COLOMBIA
BRG Member	Loek Boortman	GS1 NEDERLAND
BRG Member	Benjamin Couty	GS1 France
BRG Member	MaryAnn Goodrich	UNILVER HOME & PERSONAL CARE NA
BRG Member	Hideki Ichihara	EAN JAPAN
BRG Member	Nancy Laskero	SEARS, ROEBUCK AND CO
BRG Member	Hanjoerg Lerch	METRO GROUP BUYING GMBH
BRG Member	Markus Mathar	SINFOS GMBH
BRG Member	Roberto Matsubayashi	EAN BRASIL
BRG Member	Alistair McArthur	ALLIED DOMECC SPIRITS & WINE LTD
BRG Member	Michael Moise	NESTLE AG
BRG Member	Olivier Mouton	CARREFOUR
BRG Member	Barbara Munro	KRAFT FOODS, INC
BRG Member	Anakaryna Palacios	EAN VENEZUELA
BRG Member	Hector German Piñeros	IBC SOLUTIONS COLOMBIA
BRG Member	Paul Povey	PROCTER & GAMBLE COMPANY

Function	Name	Company / Organisation
BRG Member	Rebecca Quigley	COCA-COLA BOTTLERS SALES AND SERVICES
BRG Member	Julie Rodriguez	LEVI STRAUSS & CO
BRG Member	Joy Schneck	GENERAL MILLS, INC.
BRG Member	Peggy Spofford	3M COMPANY
BRG Member	Steve Vazzano	TRANSORA
BRG Member	Lionel Tussau	GEORGIA-PACIFIC CORPORATION
BRG Member	Patricia Vessey	BEST BUY COMPANY, INC.
BRG Member	Marcel Yska	AHOLD NV
BRG Member	Greg Zwanziger	SUPERVALU, INC.

1.5.2. Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant	JC GILBERT	GENCOD EAN FRANCE
Participant	L. CAZIER	LEROY MERLIN
Participant	B. FIX	SAINT GOBAIN
Participant	J VAN DEN DREISCH	CASTORAMA

1.5.3. Design Team Members

Function	Name	Organisation
Modeller	Rob Toole	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer		

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Align_Item_Technical Characteristics
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

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Not Applicable

4.2. Use Case Description

Covered by Align Item Use Case

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 Requirements
CharacteristicsValue				
	characteristicsValueCode			Ref 1 Req 2.1
ExtensionSpecificsTechnicalCharacteristics				
		None	ProductCharacteristics	
ExtensionSpecificsTechnicalCharacteristics Extension				
		None	ExtensionSpecificsTechnicalCharacteristics	
ProductCharacteristics				
	categoryAgencyCode			Ref 1 Req 1.3
	characteristicsCategoryCode			Ref 1 Req 1.2
	characteristicsCode			Ref 1 Req 1.1
	characteristicsMeasurement			Ref 1 Req 1.1
	characteristicsDescription			Ref 1 Req 1.1
		None	CharacteristicsValue	Ref 1 Req 2

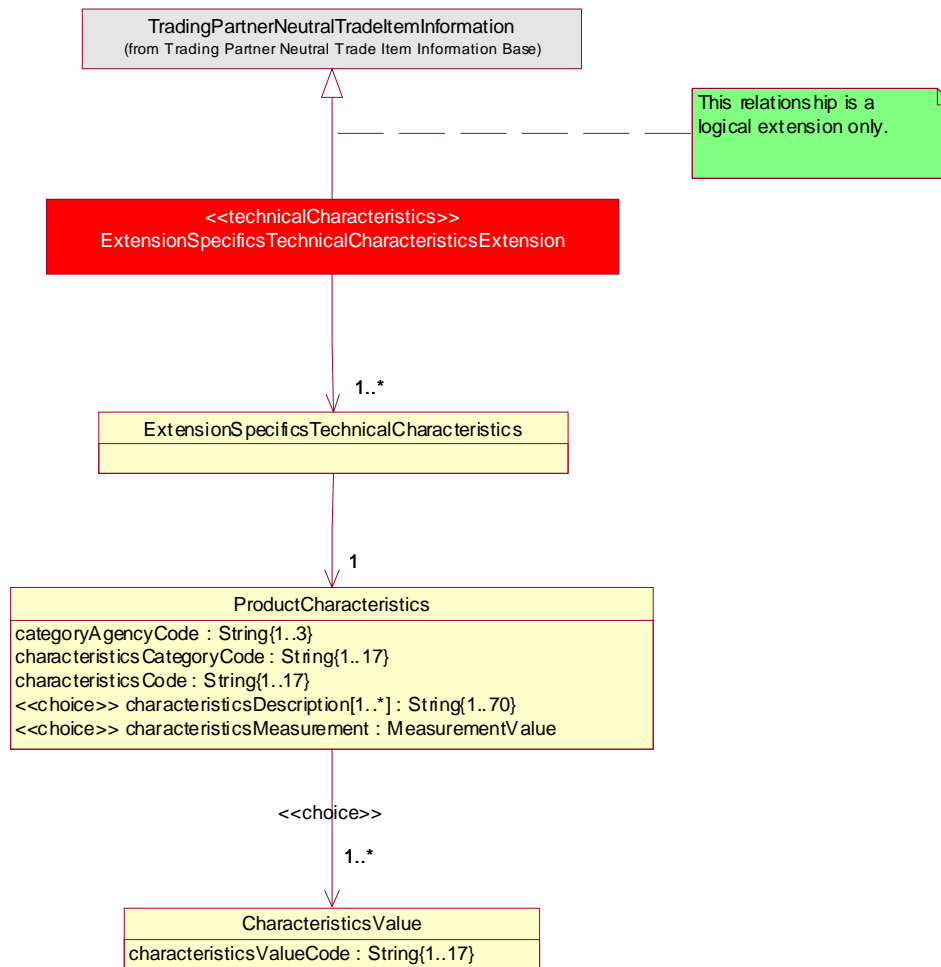
5.2. GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CharacteristicsValue				Characteristics Value. Details	None	
	characteristicsValueCode			Characteristics Value. Characteristics_ Value	Value code of a technical	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Code. Text	characteristics selected in the pre defined value list. Only the characteristicsValueCode appears.	
ExtensionSpecificsTechnicalCharacteristics				Specifics Technical Characteristics. Details	None	
		None	ProductCharacteristics	Specifics Technical Characteristics. Association. Product Characteristics	This information on ProductCharacteristics for ExtensionSpecificsTechnicalCharacteristics.	1..1
ExtensionSpecificsTechnicalCharacteristicsExtension				Specifics Technical Characteristics Extension. Details	None	
		None	ExtensionSpecificsTechnicalCharacteristics	Specifics Technical Characteristics Extension. Association. Specifics Technical Characteristics	This information on ExtensionSpecificsTechnicalCharacteristics for ExtensionSpecificsTechnicalCharacteristicsExtension.	1..*
ProductCharacteristics				Product Characteristics. Details	None	
	categoryAgencyCode			Product Characteristics. Category_ Agency Code. Text	Code assigned to a categoryAgencyCode.	1..1
	characteristicsCategoryCode			Product Characteristics. Characteristics_ Category Code. Text	Code assigned to a category of product.	1..1
	characteristicsCode			Product Characteristics. Characteristics Code. Text	Code assigned to a technical characteristic.	1..1
	characteristicsDescription			Product Characteristics. Choice_ Characteristics Description. Text	Free text of at least 70 characters describing the products technical	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					characteristics.	
	characteristicsMeasurement			Product Characteristics. Choice_ Characteristics Measurement. Measure	Value affected to the characteristic.	1..1
		None	CharacteristicsValue	Product Characteristics. Choice_ Association. Characteristics Value	This information on CharacteristicsValue for ProductCharacteristics.	1..*

5.3. Class Diagrams



5.4. Code Lists

Not Applicable

6. Business Document Example

Not Applicable

7. Implementation Considerations

Not Applicable

8. Testing

This section describes the testing criteria for business solutions.

8.1. Pass / Fail Criteria

No.	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1					
2					
3					

8.2. Test Data

Attribute	Value
categoryAgencyCode	65
characteristicsCategory	13G
characteristicsCode	000006
characteristicsDescription	Best drill in the world with this new laser technology

9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number