

Business Message Standard (BMS)

for

Align/FMCG Extension

BRG: Align

BMS Release: 2.1

Document Version: 2.0.5

Release Date: 05.07.2006

(dd.mm.cyyy)



Change Request Reference

Refer to Change Request (CR) Number(s):	N/A
CR Submitter(s):	N/A
Date of CR Submission to GSMP:	N/A

Business Requirements Document (BRD) Reference

BRD Title: Business Requirement Document For Data Synchronization Data Model for Trade Item(Data Definition)
BRD Date: 13.9.2004
BRD Version: Version 7.6

Document Summary

Document Title:	BMS for Align/FMCG Extension
Document Version	2.0.5
Owner:	Eric Kauz
Status:	<input type="checkbox"/> DRAFT x Approved
BMS Template Version:	0.0.3
Targeted BMS Publication Version	2.1

Document Change History

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	John Ryu	Included class diagrams	Added class diagrams Edited footer.	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 note		N/A
05.07.2006	2.0.4	Eric Kauz	Upgrade of GDD Report	Added GDD Report with definitions for classes.	N/A
25.04.2007	2.0.5	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

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1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

The FMCG industry needs the ability to pass measurement, packaging marking and additional identification information extending the information available in the core item message. This information is specific to the FMCG industry and includes:

- isIngredientIrradiated
- isRawMaterialIrradiated
- isTradeItemGeneticallyModified
- isTradeItemIrradiated
- degreeOfOriginalWort
- fatPercentageInDryMatter
- percentageOfAlcoholByVolume

This extension follows the extension strategy adopted for the EAN.UCC 2.0 schemas and replaces the FMCG extension mechanism available in 1.3.1 schemas.

1.1.2 Objective

To supply the detail design of and extension for FMCG needed to meet the requirements of the FMCG industry.

1.1.3 Audience

Any party interested in receiving FMCG related attributes.

1.1.4 Artefacts

Artefact name	State	Artefact / State description

1.1.5 References

Reference Name	Description
BRD For Data Synchronization Data Model for Trade Item(Data Definition)	This document includes the original requirements for the FMCG Extension.

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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 BSD.)

1.1.7 BRG Members

Function	Name	Company / organisation
BRG Chair	Jim Funk	S.C Johnson, Inc
BRG Member		
BRG Process Manager	Andrew Hearn	Uniform Code Council

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1.1.8 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		

1.1.9 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

1.1.10 Design Team Members

Function	Name	Organisation
Modeller	Eric Kauz	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer		

1.2 Business Context

(Note: The business context of the business)

Context Category	Value(s)
Industry	FMCG
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

Not applicable.

1.4.1 Business Transaction Use Case Diagram

Not applicable.

1.4.1.1 Use Case Description

Not applicable.

1.4.2 Business Transaction Activity Diagram(s)

Not applicable.

1.4.3 Business Transaction Sequence Diagram(s) (optional)

Not applicable.

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1.5 Information Model (including GDD Report)

1.5.1 Data Description:

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
FMCGTradeItemExtension				
		fMCGAdditionalTradeItemIdentifica- tion	AdditionalTradeItemIdentification	BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
		None	FMCGTradeItemMarking	BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
		None	FMCGTradeItemMeasurements	BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
FMCGTradeItemIdentifica- tion				
	type			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	value			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
FMCGTradeItemMarking				

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CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
	isIngredientIrradiated			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	isRawMaterialIrradiated			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	isTradeItemGeneticallyModified			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	isTradeItemIrradiated			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
FMCGTradeItemMeasurements				
	degreeOfOriginalWort			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	fatPercentageInDryMatter			BRD For Data Synchronization Data Model for Trade Item (Data Definition) V.7.3
	percentageOfAlcoholByVolume			BRD For Data Synchronization Data

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CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
				Model for Trade Item (Data Definition) V.7.3

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1.5.2 GDD Report :

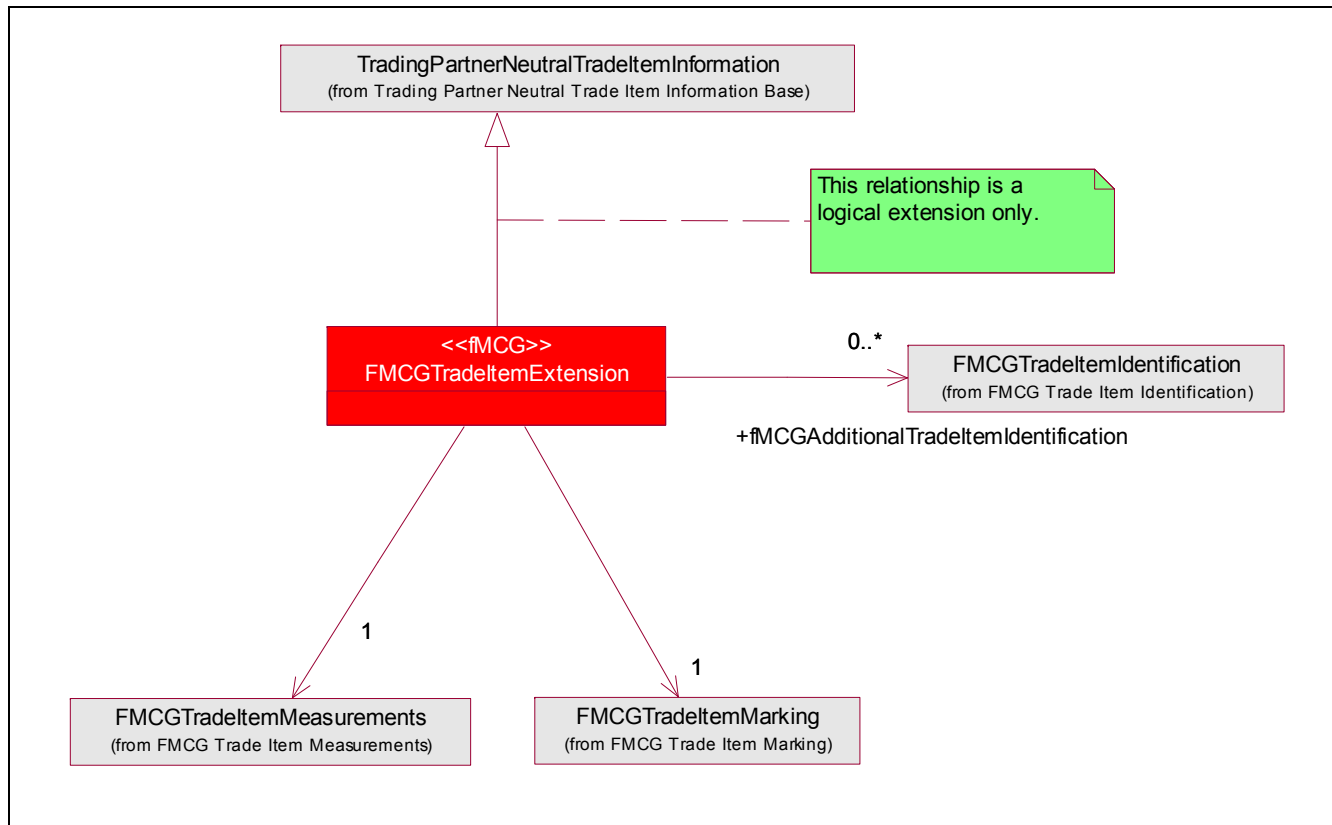
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
FMCGTradeItemExtension				FMCG_ Extension_ Trade Item. Details	The root class for the FMCG Extension which extends the trade item document with attributes associated with the Fast Moving Consumer Goods Industry.	
		fMCGAdditionalTradeItemIdentification	AdditionalTradeItemIdentification	FMCG_ Extension_ Trade Item. Additional_ Identification_ Association. Non GTIN_ Trade Item Identification	A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN, for example, a buyer's, or seller's item number. The additional identification should be associated with a specific business need.	0..*
		None	FMCGTradeItemMarking	FMCG_ Extension_ Trade Item. Association. FMCG_ Trade Item Marking	This information on FMCGTradeItemMarking for FMCGTradeItemExtension.	1..1
		None	FMCGTradeItemMeasurements	FMCG_ Extension_ Trade Item. Association. FMCG_ Trade Item Dimensions	This information on FMCGTradeItemMeasurements for FMCGTradeItemExtension.	1..1
FMCGTradeItemIdentification				Non GTIN_ FMCG_ Trade Item Identification. Details	This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one to one relationship.	
	type			Non GTIN_ FMCG_ Trade Item Identification. Identification	Indicator identifying the type and format of the FMCG Additional Trade	1..1

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				Type. Code	Item Identification Value	
	value			Non GTIN_ FMCG_ Trade Item Identification. Identification. Code	A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN	1..1
FMCGTradeItemMarking				FMCG_ Trade Item Marking. Details	!! Fast Moving Consumer Goods specific Class	
	isIngredientIrradiated			FMCG_ Trade Item Marking. Ingredient_ Irradiated. Indicator	Indicates if radiation has been applied to a trade item's ingredient.	1..1
	isRawMaterialIrradiated			FMCG_ Trade Item Marking. Raw Material_ Irradiated. Indicator	Indicates if radiation has been applied to a trade item's raw material.	1..1
	isTradeItemGeneticallyModified			FMCG_ Trade Item Marking. Genetically Modified. Indicator	Used to indicate whether trade item contains genetically modified contents.	1..1
	isTradeItemIrradiated			FMCG_ Trade Item Marking. Trade Item_ Irradiated. Indicator	Indicates if radiation has been applied to a trade item.	1..1
FMCGTradeItemMeasurements				FMCG_ Trade Item Dimensions. Details	!! Fast Moving Consumer Goods specific Class	
	degreeOfOriginalWort			FMCG_ Trade Item Dimensions. Original Wort_ Content. Percent_ Text	Specification of the degrees of original wort.	0..1
	fatPercentageInDryMatter			FMCG_ Trade Item Dimensions. Fat In Dry Matter_ Content. Percent_ Numeric	The amount of fat contained in the base product expressed in percentage	0..1
	percentageOfAlcoholByVolume			FMCG_ Trade Item Dimensions. Alcohol_ Content. Percent_ Numeric	Percentage of alcohol contained in the base unit trade item.	0..1

1.5.3 Class Diagrams

1.5.3.1 FMCG Trade Item Extension



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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.

1.5.3.2 FMCG Trade Item Identification

FMCGTradeItemIdentification
type : FMCGTradeItemIdentificationList value : String

1.5.3.3 FMCG Trade Item Marking

FMCGTradeItemMarking
isIngredientIrradiated : Boolean isRawMaterialIrradiated : Boolean isTradeItemGeneticallyModified : Boolean isTradeItemIrradiated : Boolean

1.5.3.4 FMCG Trade Item Measurements

FMCGTradeItemMeasurements
degreeOfOriginalWort[0..1] : String{1..3}
fatPercentageInDryMatter[0..1] : Percentage{3..2}
percentageOfAlcoholByVolume[0..1] : Percentage{3..2}

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1.5.4 Code Lists

Code List Name	Code List Description
FMCGTradeItemIdentificationList	Measurement, packaging marking and additional identification information extending the information available in the core item message.
Code Name	Code Description
ISBN_NUMBER	N/A
ISSN_NUMBER	N/A
LOTTERY_GAME_NUMBER	N/A
LOTTERY_PACK_BOOK_NUMBER	N/A
MANUFACTURER_PART_NUMBER	N/A
NABCA_PRODUCT_CODE	N/A

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1.6 Business Document Example

1.7 Implementation Considerations

1.8 Testing

1.8.1 Pass / Fail Criteria

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

1.8.2 Test Data

Attribute	Value
isIngredientIrradiated	false
isRawMaterialIrradiated	false
isTradeItemGeneticallyModified	false
isTradeItemIrradiated	false
degreeOfOriginalWort	1
fatPercentageInDryMatter	3.22
percentageOfAlcoholByVolume	10.75
fMCGAdditionalIdentification - Value	1000756
fMCGTrade ItemIdentification - Type	MANUFACTURER PART NUMBER

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1.9 Appendices

1.10 Summary of Changes

Change	BMS Version	Associated CR Number

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