



# Business Message Standard (BMS) Align/FMCG Extension

BMS Release: 2.7, BRG Name: GDSN

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## Document Summary

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## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
Business Requirement Document For Data Synchronization Data Model for Trade Item(Data Definition)	13.Jun.2004	7.6
BRAD For GDSN Item Maintenance Release 2	22.Jul.2007	0.0.5
{ref3} BRAD For GDSN Maintenance Release 4	14.Sept.2009	0.0.3

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31.Dec.2004	2.0.0	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	
31.Mar.2005	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
31.Mar.2005	2.0.3	John Ryu	Added extension note		N/A
05.Jul.2006	2.0.4	Eric Kauz	Upgrade of GDD Report	Added GDD Report with definitions for classes.	N/A
14.Sep.2007	2.0.5	Giovanni Biffi/Eric Kauz	Document updated to fulfill requirements of Maintenance Release 2. See appendix for detailed information.	Changes corresponding to the GDSN Maintenance Release 2	NA
13.May.2008	2.1.0	Eric Kauz	MR3 Release	Changed association to FMCGTradeItemMeasurements to a cardinality of 0..1.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
17.Oct.2009	2.2.0	Eric Kauz	MR4 Release	Increased the field length of degreeOfOriginalWort to 5.	

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# 1. Business Domain View

## 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:

- ingredientIrradiated
- rawMaterialIrradiated
- tradeItemGeneticallyModified
- tradeItemIrradiated
- 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.

## 1.2. Objective

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

## 1.3. Audience

Any party interested in receiving FMCG related attributes.

## 1.4. References

BRAD Title:	BRD Date:	BRAD Version
{ref1 } BRD Data Synchronisation Data Model For Trade Item (Data Definition)		7.6
{ref2} BRAD For GDSN Item Maintenance Release 3		0.0.2
{ref3} BRAD For GDSN Maintenance Release 4		0.0.3

## 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 Work Group Chair	Jim Funk	S.C Johnson, Inc
BRG Process Manager	Andrew Hearn	Uniform Code Council

### 1.5.2. Design Team Members

Function	Name	Organisation
Modeler	Eric Kauz/Giovanni Biffi	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer	Eric Kauz	GS1

## 2. Business Context

Context Category	Value(s)
Industry	FMCG
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)

Not Applicable

## **4. Business Transaction View**

### **4.1. Business Transaction Use Case Diagram**

Not Applicable

### **4.2. Use Case Description**

Not Applicable

### **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)

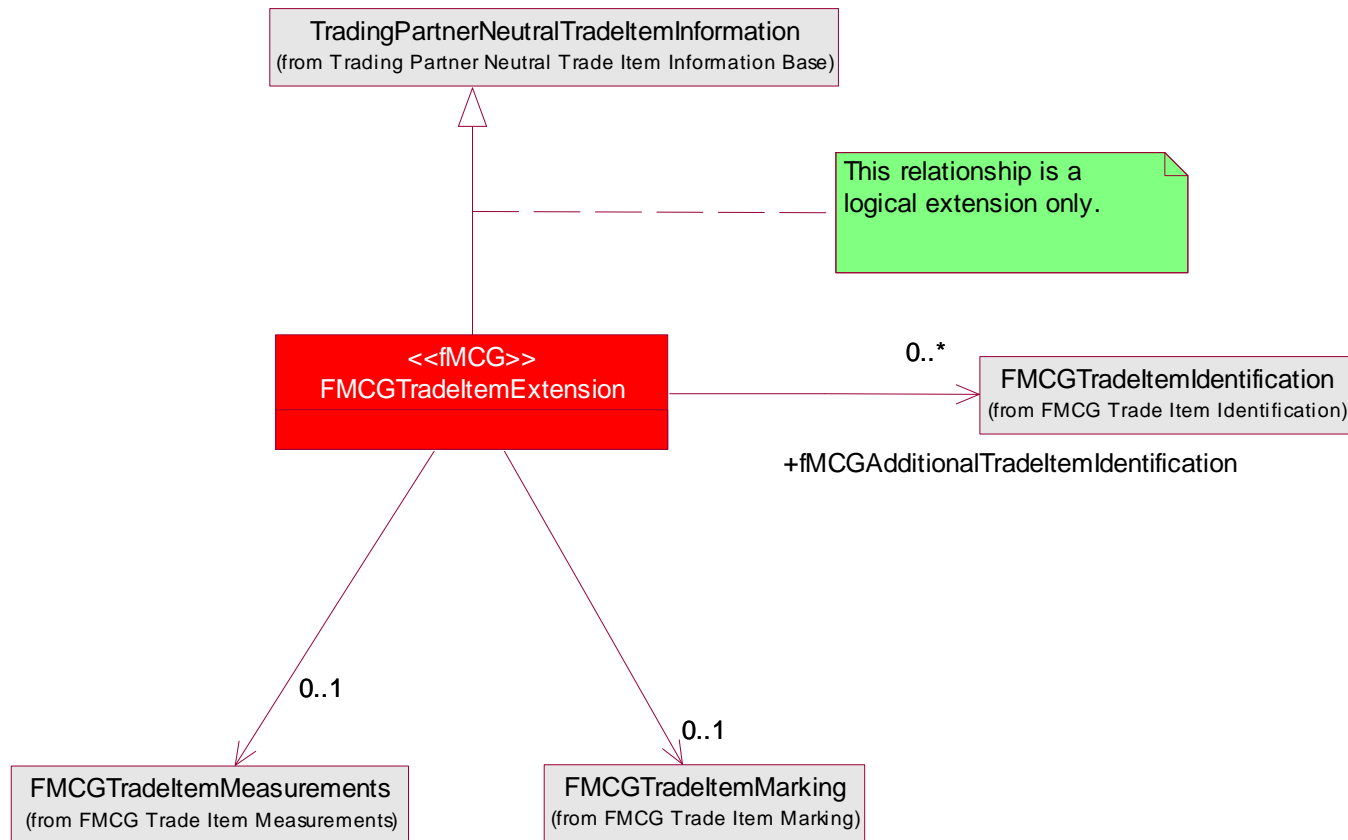
### 5.1. GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Req.	Facets
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.		{ref1}	
		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..*	{ref1}	
		None	FMCGTradeItemMarking	FMCG_Extension_Trade Item. Association. FMCG_ Trade Item Marking	This information on FMCGTradeItemMarking for FMCGTradeItemExtension.	0..1	{ref1}	
		None	FMCGTradeItemMeasurements	FMCG_Extension_Trade Item. Association. FMCG_ Trade Item Dimensions	This information on FMCGTradeItemMeasurements for FMCGTradeItemExtension.	0..1	{ref1}	
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.		{ref1}	
	Type			Non GTIN_ FMCG_ Trade Item Identification. Identification Type. Code	Indicator identifying the type and format of the FMCG Additional Trade Item Identification Value	1..1	{ref1}	
	Value			Non GTIN_ FMCG_ Trade Item Identification. Code	A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN	1..1	{ref1}	Unbounded



FMCGTradeItemMarking				FMCG_ Trade Item Marking. Details	!! Fast Moving Consumer Goods specific Class		{ref1}	
	ingredientIrradiatedCode			FMCG_ Trade Item Marking. Ingredient_Irradiated. NonBinaryLogic_Code	Indicates if radiation has been applied to a trade item's ingredient.	0..1	{ref1}	
	rawMaterialIrradiatedCode			FMCG_ Trade Item Marking. Raw Material_Irradiated. NonBinaryLogic_Code	Indicates if radiation has been applied to a trade item's raw material.	0..1	{ref1}	
	tradeItemGeneticallyModifiedCode			FMCG_ Trade Item Marking. Genetically Modified. NonBinaryLogic_Code	Used to indicate whether trade item contains genetically modified contents.	0..1	{ref1}	
	tradeItemIrradiatedCode			FMCG_ Trade Item Marking. Trade Item_Irradiated. NonBinaryLogic_Code	Indicates if radiation has been applied to a trade item.	0..1	{ref1}	
FMCGTradeItemMeasurements				FMCG_ Trade Item Dimensions. Details	!! Fast Moving Consumer Goods specific Class		{ref1}	
	degreeOfOriginalWort			FMCG_ Trade Item Dimensions. Original Wort_Content. Percent_Text	Specification of the degrees of original wort.	0..1	{ref1}	Min 1 Max 5
	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	{ref1}	
	percentageOfAlcoholByVolume			FMCG_ Trade Item Dimensions. Alcohol_Content. Percent_Numeric	Percentage of alcohol contained in the base unit trade item.	0..1	{ref1}	

## 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.

## FMCG Trade Item Identification

FMCGTradeItemIdentification
type : FMCGTradeItemIdentificationList
value : String

## FMCG Trade Item Marking

FMCGTradeItemMarking
ingredientIrradiatedCode[0..1] : NonBinaryLogicCodeList
rawMaterialIrradiatedCode[0..1] : NonBinaryLogicCodeList
tradeItemGeneticallyModifiedCode[0..1] : NonBinaryLogicCodeList
tradeItemIrradiatedCode[0..1] : NonBinaryLogicCodeList

## FMCG Trade Item Measurements

FMCGTradeItemMeasurements
degreeOfOriginalWort[0..1] : String{1..5}
fatPercentageInDryMatter[0..1] : Percentage{3.2}
percentageOfAlcoholByVolume[0..1] : Percentage{3.2}

### 5.3. 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

## 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
ingredientIrradiatedCode	FALSE
rawMaterialIrradiatedCode	FALSE
tradeItemGeneticallyModifiedCode	FALSE
tradeItemIrradiatedCode	FALSE
degreeOfOriginalWort	1
fatPercentageInDryMatter	3.22
percentageOfAlcoholByVolume	10.75
fMCGAdditionalIdentification - Value	1000756
fMCGTrade ItemIdentification - Type	MANUFACTURER_PART_NUMBER

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
<ul style="list-style-type: none"> <li>• Template Migrated</li> <li>• Change cardinality of FMCGTradeltemMarking to 0..1</li> <li>• Changed the attribute isIngredientIrradiated to ingredientIrradiatedCode and changed the data type and cardinality</li> <li>• Changed the attribute isRawMaterialIrradiated to rawMaterialIrradiatedCode and changed the data type and cardinality</li> <li>• Changed the attribute isTradeltemIrradiated to tradeltemIrradiatedCode and changed the data type and cardinality</li> <li>• Changed the attribute isTradeltemGeneticallyModified to tradeltemGeneticallyModifiedCode and changed the data type and cardinality</li> </ul>	2.0.5	CR07-000187
<ul style="list-style-type: none"> <li>• Updated Model to make FMCGTradeltemMeasurements optional.</li> <li>• Removed Non-Binary Logic Code List to BMS Common document.</li> </ul>	2.1.0 (V 2.3)	
<ul style="list-style-type: none"> <li>• Increased the field length of degreeOfOriginalWort to 5.</li> </ul>	2.2.0 (v 2.7)	