

# **Business Message Standard (BMS)**

**for**

**Align/FMCG Extension**

**BRG: Align**

**BMS Release: 2.0**

**Document Version: 2.0.2**

**Release Date: 31.12.2004**

*(dd.mm.ccy)*



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<b>Date of CR Submission to GSMP:</b>	N/A

### Business Requirements Document (BRD) Reference

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

### Document Summary

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### 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	2.0.1	John Ryu	Included class diagrams	Added class diagrams Edited footer.	N/A
23.04.2007	2.0.2	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

# Business Solution Design

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## Table of contents

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Chapter	Page
<b>1 Business Solution .....</b>	<b>1</b>
1.1 Business Domain View.....	1
1.1.1 Problem Statement / Business Need.....	1
1.1.2 Objective.....	1
1.1.3 Audience.....	1
1.1.4 Artefacts .....	1
1.1.5 References .....	1
1.1.6 Acknowledgements .....	2
1.1.7 BRG Members.....	2
1.1.8 ITRG Members .....	3
1.1.9 Task/Project Group Participants ( <i>where applicable</i> ) .....	3
1.1.10 Design Team Members .....	3
1.2 Business Context .....	4
1.3 Additional Technical Requirements Analysis .....	4
1.3.1 Technical Requirements (optional).....	4
1.4 Business Transaction View .....	5
1.4.1 Business Transaction Use Case Diagram.....	5
1.4.1.1 Use Case Description.....	5
1.4.2 Business Transaction Activity Diagram(s).....	5
1.4.3 Business Transaction Sequence Diagram(s) (optional) .....	5
1.5 Information Model (including GDD Report) .....	6
1.5.1 Data Description: .....	6
1.5.2 GDD Report : .....	8
1.5.3 Class Diagrams .....	11
1.5.3.1 FMCG Trade Item Extension .....	11
1.5.3.2 FMCG Trade Item Identification .....	12
1.5.3.3 FMCG Trade Item Marking.....	12
1.5.3.4 FMCG Trade Item Measurements .....	12
1.5.4 Code Lists.....	13
1.6 Business Document Example .....	14
1.7 Implementation Considerations.....	14
1.8 Testing.....	14

## **Business Solution Design**

---

---

### Table of contents

---

1.8.1	Pass / Fail Criteria .....	14
1.8.2	Test Data .....	14
1.9	Appendices.....	15
1.10	Summary of Changes.....	15
<b>2</b>	<b>XML Technical Solution ITRG Packet.....</b>	<b>16</b>

## 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 should follow the extension strategy used for GDSN 1.3.2 and EAN.UCC 2.0 schemas and will replace 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.

## 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 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

## Business Solution Design

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### 1.1.8 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
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	EAN.UCC
XML Technical Designer	Melanie Kudela	EAN.UCC
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	FMCG
Geopolitical	All
Product	All
Process	All
System Capabilities	All
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**

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				

## Business Solution Design

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

## Business Solution Design

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

### 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	None	
		FMCGAdditionalTradeItemIdentification	AdditionalTradeItemIdentification	FMCG_ Extension_ Trade Item. Additional_ Identification_ Association. Non GTIN_ Trade Item Identification	None	0..*
		None	FMCGTradeItemMarking	FMCG_ Extension_ Trade Item. Association. FMCG_ Trade Item Marking	None	1..1
		None	FMCGTradeItemMeasurements	FMCG_ Extension_ Trade Item. Association. FMCG_ Trade Item Dimensions	None	1..1
FMCGTradeItemIdentification				Non GTIN_ FMCG_ Trade Item Identification. Details	N/A	
	type			Non GTIN_ FMCG_ Trade Item Identification. Identification Type. FMCG_ Identification Type_ Code		1..1

## Business Solution Design

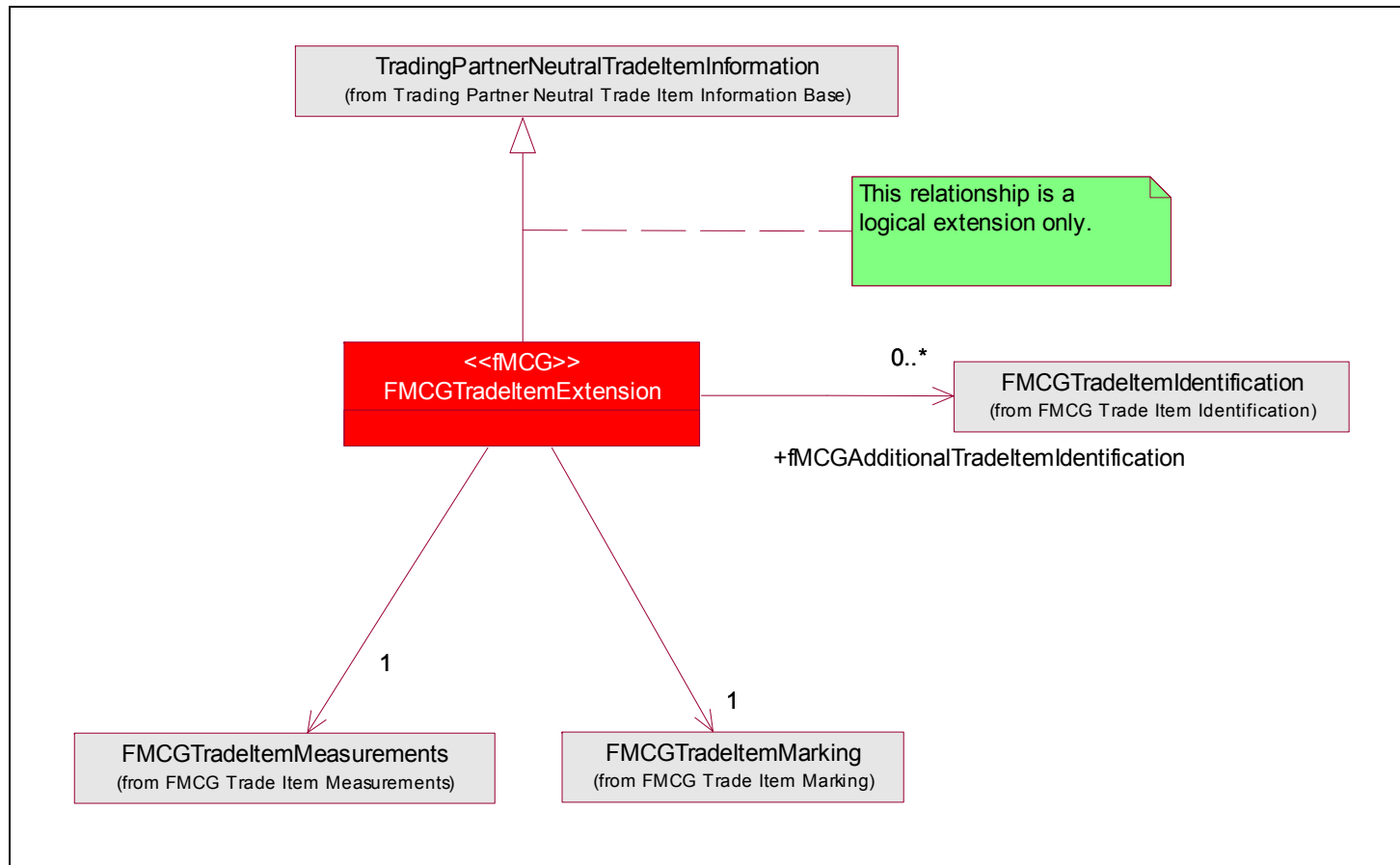
CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	value			Non GTIN_ FMCG_ Trade Item Identification. Identification. Identifier	N/A	1..1
FMCGTradeItemMarking				FMCG_ Trade Item Marking. Details	!! Fast Moving Consumer Goods specific 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 Mark-	Indicates if	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
				ing. Trade Item_ Irradiated. Indicator	radiation has been applied to a trade item.	
FMCGTradeItemMeasurements				FMCG_ Trade Item Dimensions. Details	!! Fast Moving Consumer Goods specific Class	
	degreeOfOriginalWort			FMCG_ Trade Item Dimensions. Original Wort_ Content. Percent_ Numeric	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



## Business Solution Design

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### 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 fatPercentageInDryMatter[0..1] : Percentage percentageOfAlcoholByVolume[0..1] : Percentage



## Business Solution Design

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### 1.5.4 Code Lists

Code List Name	Code List Description
FMCGTradeItem Identification List	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

## Business Solution Design

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### 1.6 Business Document Example

### 1.7 Implementation Considerations

### 1.8 Testing

#### 1.8.1 Pass / Fail Criteria

*Unit testing criteria for business solution.*

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

#### 1.8.2 Test Data

Attribute	Value
isIngredientIrradiated	false
isRawMaterialIrradiated	false
isTradeItemGeneticallyModified	false
isTradeItemIrradiated	false
degreeOfOriginalWort	1
fatPercentageInDryMatter	3.0
percentageOfAlcoholByVolume	0.0
fMCGAdditionalIdentification - Value	1000756
fMCGTrade ItemIdentification - Type	MANUFACTURER PART NUMBER

## **Business Solution Design**

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### **1.9 Appendices**

### **1.10 Summary of Changes**

<b>Change</b>	<b>BMS Version</b>	<b>Associated CR Number</b>

### 2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

[http://www.ean-ucc.org/global\\_smp/ean.ucc\\_standards.htm](http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm).

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
  - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
  - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
  - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

[http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0\\_14f7](http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7)

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest