

Business Message Standard (BMS)

for

Plan / Event

BRG: Plan

Version: 2.0.3

Date: 31/03/2005



Change Request Reference

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Business Requirements Document (BRAD) Reference

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BRAD Date: 30/06/2003
BRAD Version: 1.3.3

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BRAD Date:
BRAD Version:

Document Summary

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Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31/03/2005	2.0.1	Alice Aguemon	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	N/A
31/03/2005	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
23/04/2007	2.0.3	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

Business Message Standard

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1 Business Solution Design

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

Collaborative Planning Forecasting and Replenishment (CPFR®) is a well documented nine step process developed and maintained by the Voluntary Interindustry Commerce Standards Association (VICS) for use by trading partners.

In the CPFR® process an event is a description of a promotion, inventory policy change, or other planned events, along with its expected and actual impacts on the supply chain. Both the buyer and seller prepare, review and collaborate on their planned events during the creation of the sales forecasts.

The Event Business Requirements Document is the output of the VICS CPFR®, GCI, the Plan BRG (Business Requirements Group) and EAN ECEG (Electronic Commerce Expert Group). It is the responsibility of the BRG's to provide the business requirements for the process of the creation and maintenance of the business and data models. The BRG's develop and maintain business process models and supporting use case diagrams, logic diagrams and data requirements for a specific business function in a global electronic commerce environment. The BRG's review and resolve change requests. The BRG's provide guidance for the technical application of new business processes and changes to existing business processes. Currently, BRG's exist for the following business processes: Align Data, Plan, Order, Despatch, Pay, After Sales Services, Asset Management, Manufacturing and Point Of Service. EAN (ECEG) covers similar functionality, through a pool of experts that liaises with the local users, ensuring the effective gathering of the business requirements from its network of national Member Organisations world-wide.

Event messages describe discrete events that affect supply or demand. For example, a sale on an item increases demand. Events are not restricted to promotions; they may include weather-related activity, or inventory policy changes.

Events are important in CPFR® because they are typically responsible for the greatest volatility in a forecast. When events are properly correlated to the base forecast for an item, forecast accuracy improves.

CPFR® is the registered trademark of VICS, the Voluntary Interindustry Commerce Standards Association

1.1.2 Objective

The purpose of this Business Requirements Document is to document a process-to-data approach. The Unified Modelling Language (UML) is used for notation. Processes are clearly understood because of the use of formal modelling with the UML models. Agreed to models permit the application of the data elements to support the processes. The biggest benefit of this process-to-data approach is the alignment of the model to fit the business need.

The objective is to collaborate on both the buyer's and seller's event planning to improve the accuracy of the forecast.

1.1.3 Audience

The audience for this document is anyone involved in collaborative planning, forecasting and replenishment.

To better understand this business requirements document the audience should become familiar with the VICS CPFR® Process, the VICS CPFR® XML Messaging Model, June 13, 2001 and VICS Collaborative Planning Forecasting and Replenishment (CPFR®), Global Commerce Initiative Recommendation, June 30, 2001 as these documents provide the basis and context of the business requirements.

1.1.4 Artefacts

Artefact name	State	Artefact / State description

1.1.5 References

Reference Name	Description
EAN•UCC Global Business Model (Process and Data), "The Trade Of Goods and Services", October 1999	
VICS CPFR® XML Messaging Model, June 13, 2001	
VICS Collaborative Planning Forecasting and Replenishment (CPFR®), Global Commerce Initiative Recommendation, June 30, 2001	

1.1.6 Acknowledgements

1.1.6.1 BRG Members

Function	Name	Company
Plan BRG Co-Chair	Not filled in the previous BRD	
Plan BRG Member	Not filled in the previous BRD	
Plan BRG Member		
Plan BRG Member		
Plan BRG Member		
Plan BRG Manager		

1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair	None	
ITRG Member	None	
ITRG Member	None	
ITRG Member	None	
...		

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

Function	Name	Company / organisation
Participant	None	
Participant	None	
Participant	None	
...		

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller		
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer		

Business Solution Design

1.2 Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Plan
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

1.4.1 Business Transaction Use Case Diagram

Use Case ID	UC-1
Use Case Name	Request Event
Use Case Description	Not filled in the previous BRD
Actors (Goal)	Event is a two-actor system involving a buyer and a seller.
Performance Goals	<i>Goals related to technical requirements</i> None
Pre conditions	Both trading partners complete CPFR® Steps 1 and 2.
Post conditions	Success : An event is planned, exchanged and agreed upon before the development of a forecast. Failure : An event is not created before the forecast.
Scenario	Begins when the completion of CPFR® Step 2 is finished . Continues with... 1 Both trading partners have established the buyer and seller exception criteria as part of CPFR® Step 1 2 Both trading partners have completed CPFR® Step 2 3 Both trading partners identify and describe their events 4 Both trading partners collaborate on their events 5 Event items and planned impacts are identified 6 Events are assigned a category code, type code and status Ends when... the creation of a new event, the revising of an event, or the cancellation of an event is done
Alternative Scenario	There are no alternative scenarios. None
Related Requirements	None

Business Solution Design

Related Rules	<i>Business rules associated with use case.</i> None

Business Solution Design

1.4.2 Business Transaction Activity Diagram(s)

Not filled in the previous BRD

Business Solution Design

1.4.3 Business Transaction Sequence Diagram(s) (optional)

Not filled in the previous BRD

Business Solution Design

1.5 Information Model (including GDD Report)

1.5.1 Data Description:

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
CollaborativeTradeItem				BRD for Event Version 1.3.3, 30.06.2004
		buyerLocation	PartyIdentification	BRD for Event Version 1.3.3, 30.06.2004
		sellerLocation	PartyIdentification	BRD for Event Version 1.3.3, 30.06.2004
		product	TradeItemIdentification	BRD for Event Version 1.3.3, 30.06.2004
Event				BRD for Event Version 1.3.3, 30.06.2004
	eventCategory			BRD for Event Version 1.3.3, 30.06.2004
	eventDescription			BRD for Event Version 1.3.3, 30.06.2004
	eventStatus			BRD for Event Version 1.3.3, 30.06.2004
	eventType			BRD for Event Version 1.3.3, 30.06.2004
		None	EventTradeItem	BRD for Event Version 1.3.3, 30.06.2004
		None	PlanDocument	BRD for Event Version 1.3.3, 30.06.2004
EventLineItemImpact				BRD for Event Version 1.3.3, 30.06.2004
	eventImpact			BRD for Event Version 1.3.3, 30.06.2004

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		eventImpact-Value	MultiMeasurementValue	BRD for Event Version 1.3.3, 30.06.2004
EventTradeItem				BRD for Event Version 1.3.3, 30.06.2004
		None	CollaborativeTradeItem	BRD for Event Version 1.3.3, 30.06.2004
		actualImpact	EventLineItemImpact	BRD for Event Version 1.3.3, 30.06.2004
		plannedImpact	EventLineItemImpact	BRD for Event Version 1.3.3, 30.06.2004
MultiMeasurementValue				BRD for Event Version 1.3.3, 30.06.2004
	measurement-Value			BRD for Event Version 1.3.3, 30.06.2004
PlanDocument				BRD for Event Version 1.3.3, 30.06.2004
	dataSourceCode			BRD for Event Version 1.3.3, 30.06.2004
	plannerIdentification			BRD for Event Version 1.3.3, 30.06.2004
		None	Document	BRD for Event Version 1.3.3, 30.06.2004
		buyer	PartyIdentification	BRD for Event Version 1.3.3, 30.06.2004
		seller	PartyIdentification	BRD for Event Version 1.3.3, 30.06.2004
		period	TimePeriodDue	BRD for Event Version 1.3.3, 30.06.2004

Business Solution Design

1.5.2 GDD Report :

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CollaborativeTradeItem				Collaborative Item. Details	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Collaborative Trade Item identifies the product with the buyer and seller locations.	
		buyerLocation	PartyIdentification	Collaborative Item. Buyer Location. Party Identification	None	1..1
		sellerLocation	PartyIdentification	Collaborative Item. Seller Location. Party Identification	None	1..1
		product	TradeItemIdentification	Collaborative Item. Product. Trade Item Identification	None	1..1
Event				Plan Event. Details		
	eventCategory			Plan Event. Category. Event Category_ Code	Not Available	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	eventDescription			Plan Event. Description. Text	Not Available	0..1
	eventStatus			Plan Event. Status. Event Status_ Code	Not Available	1..1
	eventType			Plan Event. Type. Event Type_ Code	Not Available	1..1
		None	EventTradeItem	Plan Event. Association. Plan Event Line	None	1..*
		None	PlanDocument	Plan Event. Inheritance_ Association. Plan Document	None	1..1
EventLineItemImpact				Impact_ Plan Event Sub Line. Details	For each event trade item there may be a planned or an actual event line item impact on the event trade item. This class links the event impact code list to the threshold values used to measure the actual impact or planned impact.	
	eventImpact			Impact_ Plan Event Sub Line. Type. Event Impact_	Not Available	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Code		
		eventImpact-Value	MultiMeasurementValue	Impact_ Plan Event Sub Line. Value. Multi-unit Measure	Not Available	1..1
EventTradeItem				Plan Event Line. Details		
		None	CollaborativeTradeItem	Plan Event Line. Association. Collaborative Item	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Collaborative Trade Item identifies the product with the buyer and seller locations.	1..1
		actualImpact	EventLineItemImpact	Plan Event Line. Actual. Impact_ Plan Event Sub Line	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Collaborative Trade Item identifies the product with the buyer and seller locations.	0..*
		plannedImpact	EventLineItemImpact	Plan Event Line. Planned. Impact_ Plan Event Sub Line	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Collaborative Trade Item identifies the product with the buyer and seller locations.	0..*
MultiMeasurementValue				Multi-unit Measure. Details		
	measurementValue			Multi-unit Measure.		1..*

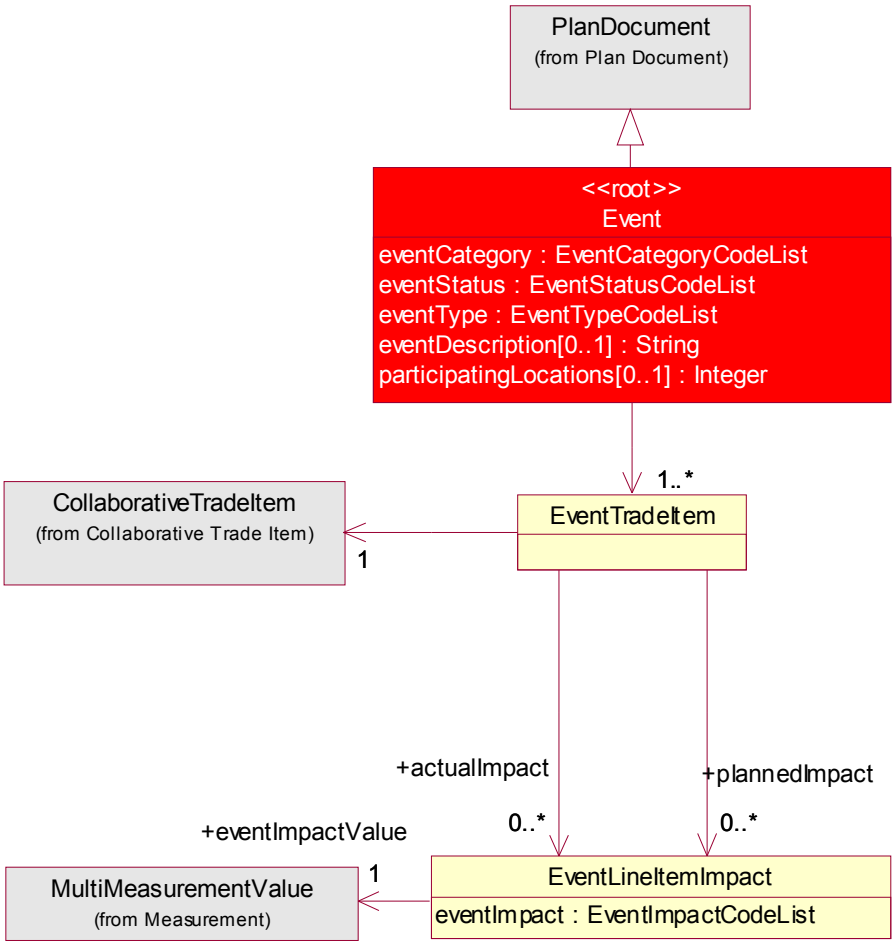
Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Measure. Measure		
PlanDocument				Plan Document. Details	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Plan Document class is the EAN•UCC System equivalent to CPFR Message class. This class has an attribute that provides the identification of the planner, identifies the source of the data, the time period for the document and the buyer and seller.	
	dataSourceCode			Plan Document. Data Source. Data Source_Code	!! This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. The source of a forecast data item exception shall be identified. This class provides the codes. The data source code list has the following attributes: Buyer, Seller.	1..1
	plannerIdentification			Plan Document. Planner Identification. Text		0..1
		None	Document	Plan Document. Association. Electronic_Document	None	1..1
		buyer	PartyIdentification	Plan Document. Buyer. Party Identification	None	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				fication		
		seller	PartyIdentification	Plan Document. Seller. Party Identification	None	1..1
		period	TimePeriodDue	Plan Document. Period. Time Period	None	1..1

1.5.3 Class Diagrams



1.5.4 Code Lists

Code List Name	Code List Description
EventCategoryCodeList	
Code Name	Code Description
COMMUNITY	N/A
DISTRIBUTION	N/A
MANUFACTURING	N/A
PROMOTION	N/A
TRANSPORTATION	N/A
WEATHER_RELATED	N/A

Code List Name	Code List Description
EventTypeCodeList	
Code Name	Code Description
ADVERTISEMENT	Advertisement
COUPON	Coupon
LABOR	Labor-related event (strike or other work stoppage)
SALE	Price reduction
STORE_OPENING	Store opening
TEST_MARKET	Test marketing event.

Code List Name	Code List Description
EventImpactCodeList	
Code Name	Code Description
INVENTORY_REDUCTION	N/A
NOT_SPECIFIED	N/A
PRICE_REDUCTION	N/A
SALES_LIFT	N/A

Code List Name	Code List Description
EventStatusCodeList	
Code Name	Code Description
CANCELED	N/A
NEW	N/A
REVISED	N/A

1.6 Business Document Example

Not filled in the previous BRD

Business Solution Design

1.7 Implementation Considerations

Not filled in the previous BRD

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

Test data is detailed in section 1.7.

Business Solution Design

1.9 Appendices

1.10 Summary of Changes

(Details changes to BMS for each version by BMS Section)

Change	BMS Version	Associated CR Number

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.

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

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