

Business Message Standard (BMS)

for

Plan/ Trade Item Information Request

BRG: Plan

Version: 2.0.2

Date: 31.03.2005



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 (BRAD) Reference

BRAD Title: BRD Trade Item Information Request – Business Requirements Document
BRAD Date: 30.06.2003
BRAD Version: 1.3.3

BRAD Title:
BRAD Date:
BRAD Version:

Document Summary

Document Title:	BMS for Plan/Trade Item Information Request
Document Version	2.0.2
Owner:	Plan BRG
Status:	(Check one box) <input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> Approved
BMS Template Version:	1.0
Targeted BMS Publication Version	2.0.2

Document Change History

Note: During development include revisions in history. Upon Approval, eliminate revisions and include only delta from previous version.

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31.03.05	2.0.0	Andrew Hearn	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	N/A
31.03.05	2.0.1	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
23.04.07	2.0.2	Giovanni Biffi	Editorial Changes	Minor Editorial Changes Made to the Document	N/A

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1 Business Solution

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, a trade item information request is one trading partner's request to the other to send product activity, forecast, or performance data, when the partner does not automatically send data.

One trading partner sends a trade item information request to another to request forecast, product activity, or performance history for one or more products. A request of this type is needed if one party does not regularly send information to the other, but sends it only upon request.

1.1.2 Objective

To supply the detail design of the Trade Item Information Request business transaction needed to meet the requirements of the referenced BRAD(s).

1.1.3 Audience

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

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 Collaborative Planning Forecasting and Replenishment (CPFR®), Global Commerce Initiative Recommendation, June 30, 2001	
VICS CPFR® XML Messaging Model, June 13, 2001	

1.1.6 Acknowledgements

Acknowledgement is also due to the work going on in the XML environment.

ebXML/SOAP
eCoFramework
RosettaNet
UN/CEFACT EWG
W3C

1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Chair		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		
BRG Member		

1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		
ITRG Member		
...		

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

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

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

(Note: The business context of the business)

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

1.4.2 Use Case Description

Use Case ID	UC-1																			
Use Case Name	Trade Item Information Request																			
Use Case Description	The objective is to enable one trading partner to request trade item information from the other trading partner when the trading partners agree to send the information only upon request.																			
Actors (Goal)	Trade Item Information Request is a two-actor system involving a buyer and a seller.																			
Performance Goals																				
Preconditions	A collaboration agreement and joint business plan must be in place.																			
Post conditions	Successful: A Trade Item Information Request is received by the other trading partner. Unsuccessful: A Trade Item Information Request is not received by the other trading partner.																			
Scenario	<p>Begins when one of the trading partners desires information about a forecast, product activity or performance history for one or more products.</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer, Seller</td><td>Both trading partners agree to provide trade item information on an as requested basis</td></tr><tr><td>2</td><td>Buyer, Seller</td><td>A trading partner identifies the trade item(s) for which information is requested</td></tr><tr><td>3</td><td>Buyer, Seller</td><td>This trading partner specifies the product, buyer location, seller location and the criteria type desired</td></tr><tr><td>4</td><td>Buyer, Seller</td><td>This trading partner identifies the bucket size type code list for the request</td></tr><tr><td>5</td><td>Buyer, Seller</td><td>The trade item information request is prepared and sent to the other trading partner</td></tr></table> <p>Ends when the Trade Item Information Request has been transmitted.</p>		Step #	Actor	Activity Step	1	Buyer, Seller	Both trading partners agree to provide trade item information on an as requested basis	2	Buyer, Seller	A trading partner identifies the trade item(s) for which information is requested	3	Buyer, Seller	This trading partner specifies the product, buyer location, seller location and the criteria type desired	4	Buyer, Seller	This trading partner identifies the bucket size type code list for the request	5	Buyer, Seller	The trade item information request is prepared and sent to the other trading partner
Step #	Actor	Activity Step																		
1	Buyer, Seller	Both trading partners agree to provide trade item information on an as requested basis																		
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3	Buyer, Seller	This trading partner specifies the product, buyer location, seller location and the criteria type desired																		
4	Buyer, Seller	This trading partner identifies the bucket size type code list for the request																		
5	Buyer, Seller	The trade item information request is prepared and sent to the other trading partner																		
Alternative Scenario	<p><i>(any alternatives to the above scenario)</i></p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>		Step #	Actor	Activity Step															
Step #	Actor	Activity Step																		

Business Solution Design

Related Requirements		
	1	
Related Rules		

1.4.3 Business Transaction Activity Diagram(s)

1.4.4 Business Transaction Sequence Diagram(s) (optional)

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 Trade Item Information Request V 1.3.3
		buyerLocation	PartyIdentification	BRD for Trade Item Information Request V 1.3.3
		sellerLocation	PartyIdentification	BRD for Trade Item Information Request V 1.3.3
		product	TradeItemIdentification	BRD for Trade Item Information Request V 1.3.3
InformationRequestTrade-Item				BRD for Trade Item Information Request V 1.3.3
	bucketSize			BRD for Trade Item Information Request V 1.3.3
		None	CollaborativeTradeItem	BRD for Trade Item Information Request V 1.3.3
PlanDocument				BRD for Trade Item Information Request V 1.3.3
	dataSourceCode			BRD for Trade Item Information Request V 1.3.3
	plannerIdentification			BRD for Trade Item Information Request V 1.3.3
		None	Document	BRD for Trade Item Information Request V 1.3.3
		buyer	PartyIdentification	BRD for Trade Item Information Request V 1.3.3
		seller	PartyIdentification	BRD for Trade Item Information Request V 1.3.3

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		period	TimePeriodDue	BRD for Trade Item Information Request V 1.3.3
TradeItemInformationRequest				BRD for Trade Item Information Request V 1.3.3
		request	InformationRequestTradeItem	BRD for Trade Item Information Request V 1.3.3
		None	PlanDocument	BRD for Trade Item Information Request V 1.3.3

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
InformationRequestTradeItem				Information Request Trade Item. Details		
	bucketSize			Information Request		0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Trade Item. Bucket Size. Bucket Size_ Code		
		None	CollaborativeTradeItem	Information Request Trade Item. Association. Collaborative Item	None	1..1
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,	1..1

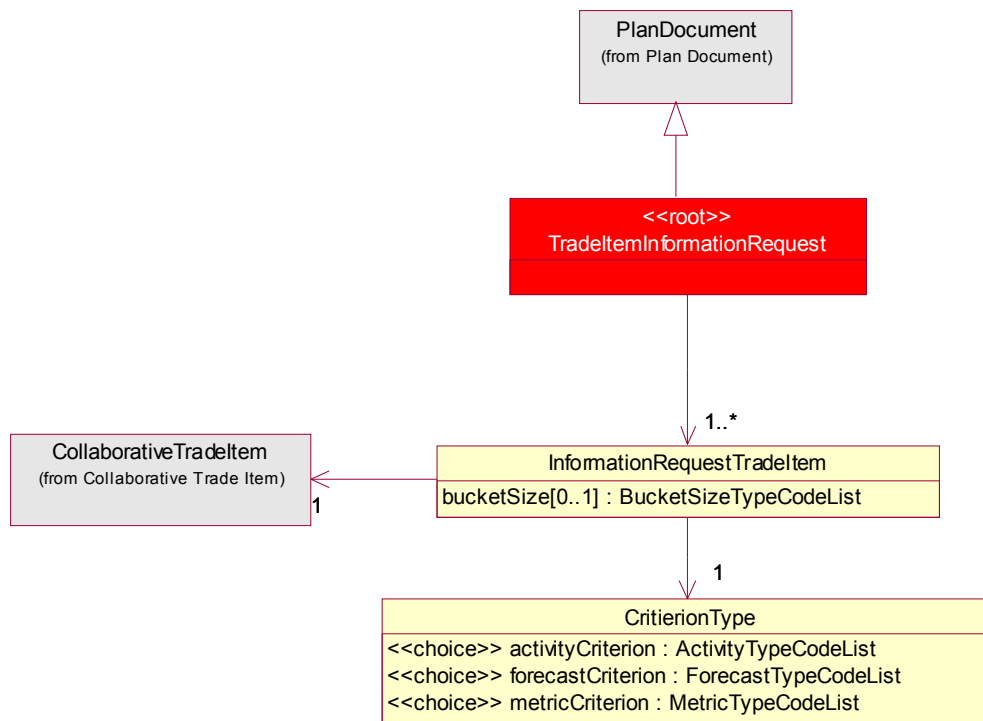
Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					Seller.	
	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
		seller	PartyIdentification	Plan Document. Seller. Party Identification	None	1..1
		period	TimePeriodDue	Plan Document. Period. Time Period	None	1..1
TradeItemInformationRequest				Trade Item Information Request. Details		
		request	InformationRequestTradeItem	Trade Item Information Request. Request. Information	None	1..*

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Request Trade Item		
		None	PlanDocument	Trade Item Information Request. Inheritance_ Association. Plan Docu- ment	None	1..1

1.5.3 Class Diagrams



1.5.4 Code Lists

Code List Name	Code List Description
BucketSizeTypeCodeList	
Code Name	Code Description
DAY	Day
MONTH	Month
QUARTER	Quarter
UNSPECIFIED	Unspecified
WEEK	Week
YEAR	Year

Code List Name	Code List Description
ActivityTypeCodeList	
Code Name	Code Description
CANCELED_ORDERS	N/A
EMERGENCY_ORDERS	N/A
ON_HAND	N/A
ORDERS	N/A
RECEIPTS	N/A
SALES	N/A
SHIPMENTS	N/A

Code List Name	Code List Description
ForecastTypeCodeList	
Code Name	Code Description
BASE	Not Available
PROMOTIONAL	Not Available
SEASONAL	Not Available
TOTAL	Not Available

Code List Name	Code List Description
MetricTypeCodeList	
Code Name	Code Description
FILL_RATE	N/A
FORECAST_ACCURACY	N/A
GROSS_MARGIN	N/A
IN_STOCK	N/A
ON_TIME_DELIVERY	N/A
SUPPLY	N/A

Business Solution Design

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

Business Solution Design

1.9 Appendices

1.10 Summary of Changes

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

Change	BMS Ver- sion	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