

# **Business Message Standard (BMS)**

**for**

**Pay/Request for Payment**

**BRG: Pay**

**BMS Release: 2.0**

**Document Version: 2.0.1**

**Release Date: 31.12.2004**

*(dd.mm.cyyy)*



### Change Request Reference

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

### Business Requirements Document (BRAD) Reference

<b>BRAD Title:</b> Request for Payment – Business Requirement Document
<b>BRAD Date:</b> 27.08.2004
<b>BRAD Version:</b> 1.4

<b>BRAD Title:</b>
<b>BRAD Date:</b>
<b>BRAD Version:</b>

### Document Summary

<b>Document Title:</b>	BMS For Pay/Request for payment
<b>Document Version</b>	2.0.1
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<b>BMS Template Version:</b>	1.0
<b>Targeted BMS Publication Version</b>	2.0

### 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
24.04.2007	2.0.1	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

# Business Message Standard

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# Business Solution Design

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## 1 Business Solution Design

### 1.1 Business Domain View

#### 1.1.1 Problem Statement / Business Need

The Core Request for Payment Message is defined as requesting payment for goods or services under conditions agreed upon between the seller and the buyer. It contains only the necessary information needed for payment consisting of parties, items, and quantities. Extensions are available to add functionality and are categorized by business process. For example, the Core Request for Payment could be used with the Simple Invoice Extension for data relative to pricing and reference numbers.

#### 1.1.2 Objective

To supply the detail design of a request for Payment business transaction needed to meet the requirements of the referenced BRAD(s).

#### 1.1.3 Audience

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers and other third parties.

#### 1.1.4 Artefacts

Artefact name	State	Artefact / State description

#### 1.1.5 References

Not filled in the original BRAD

Reference Name	Description

## Business Solution Design

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### 1.1.6 Acknowledgements

#### 1.1.6.1 BRG Members

Not filled in the original BRAD

Function	Name	Company
BRG Manager		
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

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### 1.2 Business Context

Context Category	Value(s)
Industry	All
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

## Business Solution Design

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### 1.4 Business Transaction View

Request for payment is the process of communicating the request for payment data elements between the seller, buyer.

#### 1.4.1 Business Transaction Use Case Diagram

##### 1.4.1.1 Use Case Description

<b>Use Case ID</b>	UC-1														
<b>Use Case Name</b>	Add Request for Payment														
<b>Use Case Description</b>	Not filled in the original BRAD														
<b>Actors (Goal)</b>	<p>The two general players in the Request of Payment process are the "seller" and the "buyer".</p> <ul style="list-style-type: none"> <li>• Seller: Manufacturer or supplier of the item or the Remit-to.</li> <li>• Buyer : Retailer or distributor of the item.</li> </ul>														
<b>Performance Goals</b>	<p><i>Goals related to technical requirements</i></p> <p><b>None</b></p>														
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Not filled in the original BRAD</li> </ul>														
<b>Post conditions</b>	Not filled in the original BRAD														
<b>Scenario</b>	<p><b>Begins when</b> Not filled in the original BRAD</p> <p><b>Continues with...</b></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">Step #</th> </tr> <tr> <th></th> <th style="text-align: center;">Actor</th> </tr> <tr> <th></th> <th style="text-align: center;">Activity Step</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td></td> </tr> <tr> <td style="text-align: center;">4</td> <td></td> </tr> </tbody> </table> <p><b>Ends when...</b> Not filled in the original BRAD</p>		Step #		Actor		Activity Step	1		2		3		4	
	Step #														
	Actor														
	Activity Step														
1															
2															
3															
4															
<b>Alternative Scenario</b>	<p><i>(any alternatives to the above scenario)</i></p> <p><b>None</b></p>														



## Business Solution Design

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	<b>Step #</b> <b>Actor</b> <b>Activity Step</b>
<b>Related Requirements</b>	<b>None</b>
<b>Related Rules</b>	<i>Business rules associated with use case.</i> <b>None</b>

## **Business Solution Design**

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### **1.4.2 Business Transaction Activity Diagram(s)**

### **1.4.3 Business Transaction Sequence Diagram(s) (optional)**

## Business Solution Design

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### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description:

Attribute	Related Requirement
<b>Seller</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Buyer</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Price Bracket Identification</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Is Price Bracket Private</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Bracket Description</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Bracket Qualifier Basis of Measurement</b>	Price Bracket – Business Requirement Document Version 2.0
<b>Bracket Range</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Bracket Range Qualifier</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Price Date</b>	Price Bracket – Business Requirement Document Version 1.15
<b>Request for Payment</b>	Request for Payment - Business Requirement Document Version 1.4
<b>Remit-to</b>	Payment to 3rd Party - Business Requirement Document Version 1.2

## Business Solution Design

### 1.5.2 GDD Report :

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
AllowanceCharge				Allowance Charge. Details	!! Specifies allowances and charges specified to wither the entire message or to individual line items contained in the message.	
	allowanceChargeType			Allowance Charge. Allowance Charge_ Type. Allowance Charge Type_ Code	n.a.	1..1
	allowanceOrChargeType			Allowance Charge. Allowance Or Charge_ Type. Allowance Or Charge Type_ Code	n.a.	1..1
	effectiveDateType			Allowance Charge. Effective_ Date Type. Effective Date_ Code	Not Available	0..1
	sequenceNumber			Allowance Charge. Sequence Number. Integer_ Numeric	n.a.	0..1
	settlementType			Allowance Charge. Settlement_ Type. Settlement Type_ Code	n.a.	1..1
			AllowanceChargePriceBracket	Allowance Charge. Association. Allowance Charge_ Price Bracket	n.a.	0..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
			MonetaryAmountOrPercentage	Allowance Charge. Base Amount. Amount Percent Group	n.a.	0..1
			MonetaryAmountOrPercentage	Allowance Charge. Monetary Amount Or Percentage. Amount Percent Group	n.a.	1..*
		monetaryAmountOrPercentage	MonetaryAmountOrPercentage	Allowance Charge. Association. Amount Percent Group	n.a.	1..*
		allowanceChargeDescription	MultiDescription	Allowance Charge. Allowance Charge_ Description. Multi-language Description	n.a.	0..1
Document				Electronic_ Document. Details	Used to specify basic information about the content of the message including version number; creation date and time.	
	contentVersion			Electronic_ Document. Content_ Version. Identifier	Not defined in BRD	0..1
	creationDate			Electronic_ Document. Creation_ Date. Date Time	Not defined in BRD	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	documentStatus			Electronic_ Document. Status. Identifier	Indicates if the document is a copy or an original.	1..1
	documentStructureVersion			Electronic_ Document. Document Structure_ Version. Identifier	Not defined in BRD	0..1
	lastUpdateDate			Electronic_ Document. Last Update_ Date. Date Time	Not defined in BRD	0..1
EntityIdentification				Entity Identification. Details	The unique identification of a document.	
	uniqueCreatorIdentification			Entity Identification. Identification. Identifier	n.a.	1..1
		contentOwner	PartyIdentification	Entity Identification. Content Owner. Party Identification	n.a.	1..1
InvoiceLineItem				Invoice Line. Details	n.a.	

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	invoicedQuantity			Invoice Line. Invoiced_Quantity. Quantity	N/A	1..1
			AllowanceCharge	Invoice Line. Association. Allowance Charge	Specifies allowances and charges specified to either the entire message or to individual line items contained in the message.	0..*
			LineItem	Invoice Line. Inheritance_Association. Line Item	n.a	1..1
			TradeItemIdentification	Invoice Line. Association. Trade Item Identification	!! Provide the identification of trade items using the Global Trade Identification Number (GTIN) or an alternate trade item identification. All trade items shall be identified and this class provides for the identification of trade items. This class is mandatory.	1..1
LineItem				Line Item. Details	n.a.	
	number			Line Item. Number. Integer_ Numeric	N/A	1..1
PartyIdentification				Party Identification. Details	Unique location number identifying the Party for which the rest of the message defines.	

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	globalLocation-Number			Party Identification. Primary_ Identification. GLN_ Identifier	!! The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the recommended primary party identifier. Each party identified in the trading relationship must have a primary party Identification. We recommend use of GLN. However, we have allowed for use of alternate party identification for transition.	1..1
			AdditionalParty-Identification	Party Identification. Additional. Non GLN_ Party Identification	n.a	0..*
PaymentTerms				Payment Terms. Details	This class is the root class for the message.	
	paymentTermsEvent			Payment Terms. Event Type. Payment Terms Event_ Code	N/A	1..1
	paymentTermsType			Payment Terms. Payment Terms Type. Payment Terms_ Code	N/A	1..1
	proximoCutoffDay			Payment Terms. Proximo Cut-off Day. DD_ Date Time	N/A	0..1



## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
			DiscountPayment	Payment Terms. Association. Discount_ Payment Due	Describe the amount for a discounted payment. Zero or more discounts may be specified using this class. The discount amount is expressed as a percent and is based on the number of days by which the payment must be made to earn the discount.	0..*
			InstallmentDue	Payment Terms. Association. Installment_ Payment Due	Specify the percentage amount of the payment due for the defined PaymentTimePeriod. Percent of payment due specifies the exact amount of the payment due this payment period. The amount is expressed as a percent.	0..1
			NetPayment	Payment Terms. Association. Net_ Payment Due	n/a	0..1
			PaymentMethod	Payment Terms. Association. Pay_ Payment Method	Specify the method of payment.	0..*
RequestForPayment				Invoice. Details	!! requesting payment for goods or services under conditions agreed upon between the seller and the buyer	

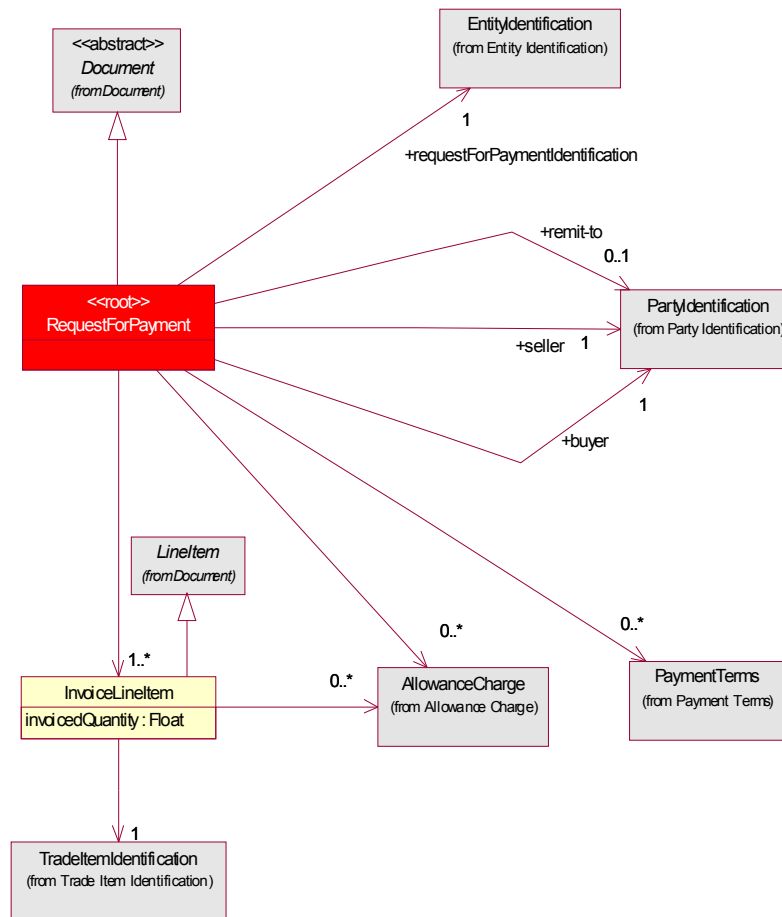
## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
			AllowanceCharge	Invoice. Association. Allowance Charge	Specifies allowances and charges specified to whether the entire message or to individual line items contained in the message.	0..*
			Document	Invoice. Inheritance_ Association. Electronic_ Document	n/a	1..1
		requestForPaymentIdentification	EntityIdentification	Invoice. Identification. Entity Identification	!! Provides a unique identification to the Request For Payment message.	1..1
			InvoiceLineItem	Invoice. Line Item. Invoice Line	n.a	1..*
		buyer	PartyIdentification	Invoice. Buyer. Party Identification	n.a	1..1
		seller	PartyIdentification	Invoice. Seller. Party Identification	n.a	1..1
		remit-to	PartyIdentification	Invoice. Remit To. Party Identification	n.a	0..1
			PaymentTerms	Invoice. Association. Payment Terms	n.a	0..*
TradeItemIdentification				Trade Item Identification. Details	n.a.	

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	globalTradeItem-Number			Trade Item Identification. GTIN. GTIN_Identifier	A particular Global trade item Number; a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned; priced; ordered; delivered and or invoiced at any point in any supply chain.	1..1
		additionalTradeItemIdentification	AdditionalTradeItemIdentification	Trade Item Identification. Additional. Non GTIN_ Trade Item Identification	n.a.	0..*

## 1.5.3 Class Diagrams



## Business Solution Design

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### 1.5.4 Code Lists

*(Note: Code Lists are taken from the GDD through a GDD report.)*

Code List Name	Code List Description
Code Name	Code Description

## Business Solution Design

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### 1.6 Business Document Example

Not filled in the original BRAD

### 1.7 Implementation Considerations

Not filled in the original BRAD

### 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

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### 1.9 Appendices

#### 1.10 Summary of Changes

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

<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