

Business Message Standard (BMS) Invoice - European Union Invoice Extension

BMS Release: 2.6.0, BRG Name: eCom

Issue 1.2.0, 30-Oct-2009





Document Summary

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6-May-2009	Stef Spaan, GS1 Netherlands	09-000134
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10 – Aug – 20005	Tom Heist. GS1	05-000248
10 – Aug – 20005	Tom Heist. GS1	05-000247
14 - Sept - 20004	Catherine Karim, GS1 France	04-000179

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
Invoice – European Union Value Added Tax (VAT) Extension	19 May 2005	Version 0.0.4
BRAD eCom Maintenance Release 2 BMS 2.6.0	29-Jun-2009	Version 0.1.1

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
18 – Oct- 2005	0.1	Mark Van Eeghem	Initial Draft	Initial Draft	P4CL 7609



Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
21 – Oct- 2005	0.2	Mark Van Eeghem	Peer Review	EU which stands for European Union should be considered as two word. Therefore, need to change class names from Eu>EU. VAT which stands for Value Added Tax should be considered as three words. Therefore, needs to change class name from EuVat>EUVAT. class Diagram 1.5.3.1 (EU Invoice Extension) InvoiceLineItem was being reused, but all the associations drawn in this section 1.5.3.1 have to be drawn on section 1.5.3.2 EU Invoice Line Item Extension. As those associations added in section 1.5.3.1 will have a major impact to the existing InvoiceLineItem structure. Removed duplicate solution for the role name delivery Note associated to DocumentOrDocumentLine Reference as this exists in Invoice as deliveryNote associated to Reference.	P4CL 7631
22 – Nov -2005	0.3.0	Mark Van Eeghem	EMT Decision	Restricted elements in BSD to the ones that are EU legislation driven, and/or that are common to at least 6 out of 8 MOs	P4CL BSD 7800 P4CL MDL 7802
05 _ Dec -2005	0.4.0	Mark Van Eeghem	Peer review	Corrected BSD based on Peer Review	P4CL BSD 7876 P4CL MDL 7875



Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
17 _Feb – 2006	1.0.0	Mark Van Eeghem	Added sample data	Added sample data	P4CL BSD 7876
					P4CL MDL 7875
28 – Apr -2006	1.0.1	Mark Van Eeghem	ITRG Review	Corrected sample data	P4CL BSD 8300
					P4CL MDL 7875
15 – May -2006	1.0.2	Mark Van Eeghem	ITRG Review	Corrected test data, updated TOC	P4CL BSD 8342
					P4CL MDL 7875
07 – Mar – 2007	1.0.3	Andrew Hearn	Errata	Update BMS Version Number	
25 – Apr -2007	1.0.4	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A
23 - Sep- 2008	1.1.0	John Ryu	BMS Release 2.5.0	Noted in summary of changes	MDL: 10557
04-Nov-2008	1.1.1	John Ryu	Pilot/Public Review Resolution	Noted in summary of changes	
1-Dec-2008	1.1.2	John Ryu	Final Public Review	Noted in summary of changes	
6- Feb -2009	Issue 1.1.2	John Ryu	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	
17-Jul-2009	Draft 1.2.0	Lisa Herrick	BMS Release 2.6.0 Initial Release	No content changes. Released as companion document to Invoice.	11180
30-Oct-2009	1.2.0 Issue	Lisa Herrick	BMS Release 2.6.0 eBallot Approved	Updated to Issue	Not Applicable

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1. Business Domain View

1.1. Problem Statement / Business Need

The Council of the European Union issued Council Directive 2001/115/EC of 20 December 2001 amending Directive 77/388/EEC with a view to simplifying, modernising and harmonising the conditions laid down for invoicing in respect of value added tax. This directive created a need to develop an extension of the existing invoicing standards for European Union countries to implement these requirements.

1.2. Objective

To supply the detail design of the EU VAT business transaction needed to meet the requirements of the Invoice-European Union Value Added Tax (VAT) Extension BRAD.

1.3. Audience

The audience of the standards would be any participant in the global supply chain specifically European Union Trading Partners

1.4. References

Reference Name	Description
EAN.UCC BMS For Request For Payment	Version 2.0
EAN.UCC BMS For Simple Invoice Extension	Version 2.1
Council Directive 2001/115/EC	20 December 2001
Change Request #04-000179	14 September 2004
Spreadsheet attachment to CR#04- 000179	Data requirements_v19 2.xls
BSD Common Library	BMS 2.6.0

1.5. Acknowledgements

1.5.1. eCom BRG

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1.5.2. Design Team Members

Function	Name	Organisation
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XML Technical Designer	Dipan Anarkat	GS1 Global Office
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Brian Bennett	GS1 Global Office

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	European Union
Product	All
Process	Pay
System Capabilities	GS1 System
Official Constraints	European VAT Regulation and Sales Tax Local Country or Regional Regulation and Sales Tax,

3. Additional Technical Requirements Analysis

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)

No Activity Diagram

4.4. Business Transaction Sequence Diagram(s)

No Sequence Diagram



5. Information Model (Including GDD Report)

5.1. GDD Report

5.1.1. EU Invoice Extension

Class (ABIE)	Attribute (BBIE)			Official Dictionary Entry Name	Definition	Multipli city	Data Type Components	Related Requirements	Facets
EUInvoiceE xtension				EU Invoice Extension. Details	Extension on regular Invoice to meet the legal requirements of the European Union in matters of Value added Tax.			BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	
	taxPurposes DateTime			EU Invoice Extension.Tax Purposes Date Time.Date Time	Date/time on which the supply of goods or of services was made or completed for tax purposes, or the date on which any payment on account (in advance of the issue of an invoice) was made, if ascertainable and if different from invoice issue date.	01	Date Time. Content Date Time. Format. Text	BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	No restrictions
	vATCurrenc y			EU Invoice Extension.VAT Currency.ISO4217_ Code	Other currency different from the invoiced currency in which the VAT amount according to the national law must be invoiced.	01	Code. Content	BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	Facets constraine d by code list values
		Inheritance	Invoice	EU Invoice Extension. VAT inherits Invoice	Provides the invoice structure.	11		BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	
		vATCurrenc yInformatio n	CurrencyE xchangeR ateInform ation	EU Invoice Extension. VAT Currency Information. Currency Exchange Rate Information	The exchange rate information with regards to the currency in which the VAT is invoiced.	01		BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	



5.1.2. EU Invoice Line Item Extension

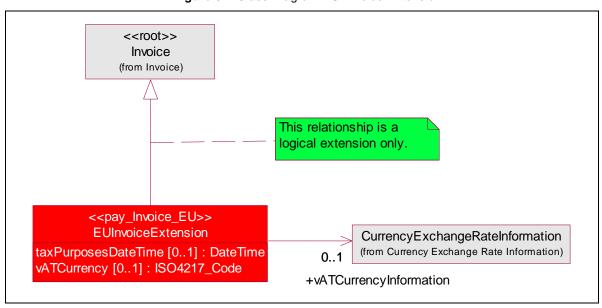
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multipl icity	Data Type Components	Related Requirem ents	Facets
EUInvoiceLineI temExtension				EU Invoice Line Item Extension. Details	Extension of the regular Line Item information within Invoice for European Union Invoice and Value Added Tax Purposes.				
	deliveredQuantity			EU Invoice Line Item Extension.Delivere d Quantity.Quantity	The quantity of articles or services which has been delivered to the delivery party.	01	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier		No Restrictio ns
	isDeliveryDutyFree			EU Invoice Line Item Extension.Is Delivery Duty Free.Indicator	Reference to relevant regulation in the national tax regulation or reason for exemption from tax.	11	Indicator. Content Indicator. Format. Text		No Restrictio ns
	isSupplyIntraComm unity			EU Invoice Line Item Extension.Is Supply Intra Community.Indicat or	Covers the supply of GOODS between EU businesses, who are registered for VAT in different EU Member States, where supplies are made VAT-free from the Member State of the supplier but become liable to VAT, at the appropriate rate, in the Member State of the customer.	11	Indicator. Content Indicator. Format. Text		No Restrictio ns
			DeliverDatel nformation	EU Invoice Line Item Extension. Association. Deliver_ Date	Delivery Date Information specific to a line item within the context of the European Invoice.	01			
			DespatchInf ormation	EU Invoice Line Item Extension. Association. Despatch Information	Despatch Information specific to a line item within the context of the European Invoice.	01			
			InvoiceLineI tem	Entity Reference. Inheritance. Invoice Line Item	Provides the invoice line item structure.	11			



5.2. Class Diagrams

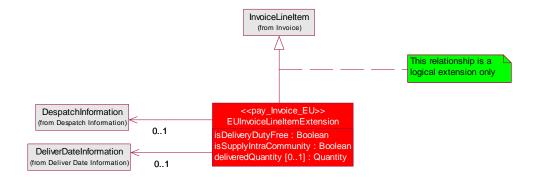
5.2.1. Class Diagram EU Invoice Extension

Figure 5-1 Class Diagram EU Invoice Extension



5.2.2. Class Diagram EU Invoice Line Item Extension

Figure 5-2 Class Diagram EU Invoice Line Item Extension



Note: Reference Common Library Business Message (BMS) Release 2.5.0 for all common information.

5.3. Code Lists



Note: Reference Common Library Business Message Release 2.5.0 for all Code Lists



6. Business Document Example

6.1. EU Invoice Extension

The following is an example of an invoice message inclusive the EU Invoice Extension. The message is sent out on June 27th 2005 at 11 AM. The message is identified with the unique identifier 2005001.

The invoice is sent by the seller (8712345678913) to the buyer (8812345678903).

The invoice consists of 2 Items 08712345678906 and 08712345678883. Both are subject to 19% VAT.

7. Implementation Considerations

Not Applicable

8. Testing

8.1. Pass / Fail Criteria

No.	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1	None				

8.2. Test Data

8.2.1. EU Invoice Extension Test Data

Invoice	
- creationDateTime	2005-06-27T11:00:00
- documentStatus	ORIGINAL
- invoiceType	INVOICE
- invoiceCurrency	EUR
- countryOfSupplyOfGoods	NL
EntityIdentification (+invoiceIdentification)	
- uniqueCreatorIdentification	2005001
Partyldentification (+contentOwner)	
- gLN	8712345678913
InvoiceParty (+buyer)	
- gLN	8812345678903
InvoiceParty (+seller)	
- gLN	8712345678913
InvoiceParty (+remitTo)	
- gLN	87123456789230
InvoiceAllowanceCharge	
- invoiceAllowanceChargeAmount	100



- invoiceAllowanceChargeType ALLOWANCE_GLOBAL - invoiceAllowanceOrChargeType ALLOWANCE InvoiceTaxInformation - dutyTaxFeeType VALUE_ADDED_TAX PaymentTerms - paymentTerms DATE_OF_INVOICE - paymentTermsType DISCOUNT DiscountPayment - discountType Payment within 30 days - discountPercent 1% PaymentTimePeriod TimePeriodDue - timePeriod DAYS - value 30 EUInvoiceExtension - taxPurposesDateTime - vATCurrency CurrencyExchangeRateInformation (+vATCurrencyInformation) - currencyConversionTo SEK - exchangeRate - exchangeRate - o.235 VATTaxInformationExtension	
- dutyTaxFeeType PaymentTerms - paymentTermsEvent - paymentTermsType DiscountPayment - discountType - discountPercent - discountPercent - discountPercent - discountPercent - discountPercent - discountPercent - timePeriod TimePeriodDue - timePeriod - value EUInvoiceExtension - taxPurposesDateTime - vATCurrency - vATCurrency - currencyExchangeRateInformation (+vATCurrencyInformation) - currencyConversionTo - exchangeRate - exchangeRate - o.235	
PaymentTerms - paymentTermsEvent DATE_OF_INVOICE - paymentTermsType DISCOUNT DiscountPayment Payment Within 30 days - discountPercent 1% PaymentTimePeriod 1% PaymentTimePeriod Days - timePeriod DAYS - value 30 EUInvoiceExtension 2005-06-24T11:00:00 - vATCurrency SEK CurrencyExchangeRateInformation (+vATCurrencyInformation) EUR - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate 0.235	
- paymentTermsEvent DATE_OF_INVOICE - paymentTermsType DISCOUNT DiscountPayment Payment Payment within 30 days - discountPercent 1% PaymentTimePeriod Due - timePeriodDue - timePeriod DAYS - value 30 EUInvoiceExtension 2005-06-24T11:00:00 - vATCurrency SEK CurrencyExchangeRateInformation (+vATCurrencyInformation) - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate DATE_OF_INVOICE DAYS 1% Payment within 30 days Payment within 30 days 1% 1% Payment within 30 days 1%	
- paymentTermsType DiscountPayment - discountType Payment within 30 days - discountPercent 1% PaymentTimePeriod TimePeriodDue - timePeriod - value 30 EUInvoiceExtension - taxPurposesDateTime 2005-06-24T11:00:00 - vATCurrency CurrencyExchangeRateInformation (+vATCurrencyInformation) - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate DISCOUNT DISCOUNT DISCOUNT Payment within 30 days 1% 204 8 9 9 9 9 9 9 9 9 9 9 9 9	
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TimePeriodDue DAYS - value 30 EUInvoiceExtension 2005-06-24T11:00:00 - vATCurrency SEK CurrencyExchangeRateInformation (+vATCurrencyInformation) EUR - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate 0.235	
- timePeriod DAYS - value 30 EUInvoiceExtension 2005-06-24T11:00:00 - taxPurposesDateTime 2005-06-24T11:00:00 - vATCurrency SEK CurrencyExchangeRateInformation (+vATCurrencyInformation) EUR - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate 0.235	
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(+vATCurrencyInformation) - currencyConversionFrom EUR - currencyConversionTo SEK - exchangeRate 0.235	
- currencyConversionTo SEK - exchangeRate 0.235	
- exchangeRate 0.235	
VATTaxInformationExtension	
THE SAME STATE OF THE SAME STA	
- vATCategory STANDARD_RATE	
- rate 19	
InvoiceAllowanceCharge	
- invoiceAllowanceChargeAmount 50	
- invoiceAllowanceChargeType CHARGE_GLOBAL	
- invoiceAllowanceOrChargeType CHARGE	
InvoiceTaxInformation	
- dutyTaxFeeType VALUE_ADDED_TAX	
VATTaxInformationExtension	
- vATCategory STANDARD_RATE	
- rate 19	
InvoiceLineItem *1	
- lineItemNumber 1	
- InvoicedQuantity 50	
- transferOfOwnershipDate 2005-06-24	
- itemPriceInclusiveAllowancesCharges 10	
- amountInclusiveAllowancesCharges 500	
InvoiceTaxInformation (+ invoiceLineTaxInformation)	
- dutyTaxFeeType VALUE_ADDED_TAX	
VATTaxInformationExtension	
- vATCategory STANDARD_RATE	
- rate 19	
TradeltemIdentification	
- gTIN 08712345678906	



DocumentOrDocumentLineReference (+despatchAdvice)	
- uniqueCreatorIdentification	200506001
EUInvoiceLineItemExtension	
- isDeliveryDutyFree	NO
- isSupplyIntraCommunity	NO
- deliveredQuantity	50
- deliverDate	2005-06-21
InvoiceLineItem *2	
- lineItemNumber	2
- InvoicedQuantity	10
- transferOfOwnershipDate	2005-06-24
- itemPriceInclusiveAllowancesCharges	15
- amountInclusiveAllowancesCharges	150
InvoiceTaxInformation (+ invoiceLineTaxInformation)	
- dutyTaxFeeType	VALUE_ADDED_TAX
VATTaxInformationExtension	
- vATCategory	STANDARD_RATE
- rate	19
TradeltemIdentification	
- gTIN	08712345678883
DocumentOrDocumentLineReference (+despatchAdvice)	
- uniqueCreatorIdentification	2005JE001
EUInvoiceLineItemExtension	
- isDeliveryDutyFree	NO
- isSupplyIntraCommunity	NO
- deliveredQuantity	10
- deliverDate	2005-06-24
InvoiceTotals	
- totalInvoiceAmount	752
- totalLineAmountInclusiveAllowancesCharges	650
- totalTaxAmount	152
- totalAmountInvoiceAllowancesCharges	100
InvoiceTaxInformation (+ TaxSubTotal)	
- dutyTaxFeeType	VALUE_ADDED_TAX
- taxAmount	152
- taxableAmount	800
VATTaxInformationExtension	
- vATCategory	STANDARD_RATE
- rate	19

9. Appendices

None



10. Summary of Changes

Change	BSD	Associated
	Version	CR Number
 Removed deliveryParty in Class Diagram EUInvoiceExtension as it is the same as shipTo, which is already available in core 	1.0.4	CR 04- 00179
 Removed invoicee in Class Diagram EUInvoiceExtension as it is the same as remitTo, which is already available in core 		
 Removed supplier in Class Diagram EUInvoiceExtension as it is the same as seller, already available in core. 		
 Removed itemFreeTextDescription in class diagram EUInvoiceLineItemExtension: During technical review of the upstream CR the itemDescription was added to the core model. 		
 Removed suppliersArticleIdentification in class diagram EUInvoiceLineItemExtension: redundant, since the TradeItemIdentification class contains the additionalItemIdentification(0*) 		
 Removed CORRECTED_INVOICE from the InvoiceTypeCodeList, as CREDIT_NOTE and DEBIT_NOTE from Invoice were already meant to cover this requirement. 		
Title Page 1, Date: 22 November 2005 changed to Date: 22.11.2005 to be consistent.		
 Document Change History 1: changed " Date: 22 November 2005 " to "22.11.2005" and added date format (dd.mm.ccyy) to be consistent 		
 Document Change History: "Added BMS Release: 3.0" reflected in the Document Summary Section as well 		
 Added reference to BSD Common Library Document Change History: Summary of change for version 0.3		
 Document Change History 2 and 3, repeat heading rows for better readability. 		
 P4CL for v0.2 and v0.3: the p4cl was incorrect: version 0.1>7609 Version 0.2>7631 version 0.3>BSD p4CL: 7802 		
Added line numbers to the whole document for better readability.		
Added in the GDD report the association to CurrencyExchangeRateInformation.		
 Added in the GDD report the Inheritance/generalization to Invoice class 		
 Added the definition in the GDD report for isDeliveryDutyFree 		
 Added the definition in the GDD report for isSupplyIntraCommunity 		
Added the definition in the GDD report for deliveredQuantity		
 Added the Multiplicity [11] for isDeliveryDutyFree in the EUInvoiceLineItemExtension 		
 Added the Multiplicity [11] for isSupplyIntraCommunity in the EUInvoiceLineItemExtension 		
 Changed name from isIntraCommunitySupplyIndicator to isSupplyIntraCommunity in EUInvoiceLineItemExtension Class Diagram 		
 Changed name from isDutyFreeDeliveryIndicator to isDeliveryDutyFree in Class Diagram EUInvoiceLineItemExtension 		
 Removed the datatype column in the GDD Report 		
 Added remark to the InvoiceTypeCodelist to highlight which items were added in this BMS. 		
Added Business Document Example		
Added implementation consideration "N/A"		



Change			BSD Version	Associated CR Number
	vATDue[01] : VATPaymentDueList		1.1.0	CR 7-442
7-442	Definition VATDue: Provides the criteria when the VAT is due.	EUInvoiceExtension		
	DUTY_TAX_OR_FEE_PAYMENT_DU E_ON_INVOICE_PAYMENT_DATE			
	Definition Duty, tax or fee payment due on invoice payment date: Duty, tax or fee payment is due on the			
7-442	date when the invoice is paid	VATPaymentDueList		
	DUTY_TAX_OR_FEE_PAYMENT_DU E_ON_INVOICE_ISSUE_DATE			
	Definition Duty, tax or fee payment due on invoice issue date :			
7-442	Duty, tax or fee payment is due on the date when the invoice is issued.	VATPaymentDueList		
1 TTZ		VICTI dymentbacket	1	
Reverted the	e changes from BSD Version 1.1.0 and incorpo	orated as part of Invoice.	1.1.1	08-000209
Updated Fo	oter and post for final public review as part of e	Com 2.5.0 Release	1.1.2	
· ·	IS to Approved Status roved Release 2.5.0	Issue 1.1.2		