



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

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20 – Aug – 2008	John Ryu, GS1	08-000209
10 – Aug – 20005	Tom Heist. GS1	05-000248
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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

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	<p>EU which stands for European Union should be considered as two word. Therefore, need to change class names from Eu--->EU.</p> <p>VAT which stands for Value Added Tax should be considered as three words. Therefore, needs to change class name from EuVat-->EUVAT.</p> <p>class Diagram 1.5.3.1 (EU Invoice Extension)</p> <p>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.</p> <p>Removed duplicate solution for the role name delivery Note associated to DocumentOrDocumentLineReference as this exists in Invoice as deliveryNote associated to Reference.</p>	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
17 _Feb – 2006	1.0.0	Mark Van Eeghem	Added sample data	Added sample data	P4CL BSD 7876 P4CL MDL 7875

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
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	

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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

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	

1.4. Acknowledgements

1.4.1. eCom BRG

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1.4.2. Design Team Members

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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)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
EUInvoiceExtension				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	
	taxPurposesDateTime			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.	0..1	Date Time. Content Date Time. Format. Text	BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	No restrictions
	vATCurrency			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.	0..1	Code. Content	BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	Facets constrained by code list values
		Inheritance	Invoice	EU Invoice Extension. VAT inherits Invoice	Provides the invoice structure.	1..1		BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	
		vATCurrencyInformation	CurrencyExchangeRateInformation	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.	0..1		BRAD Invoice – European Union Value Added Tax (VAT) Extension v 0.0.4	

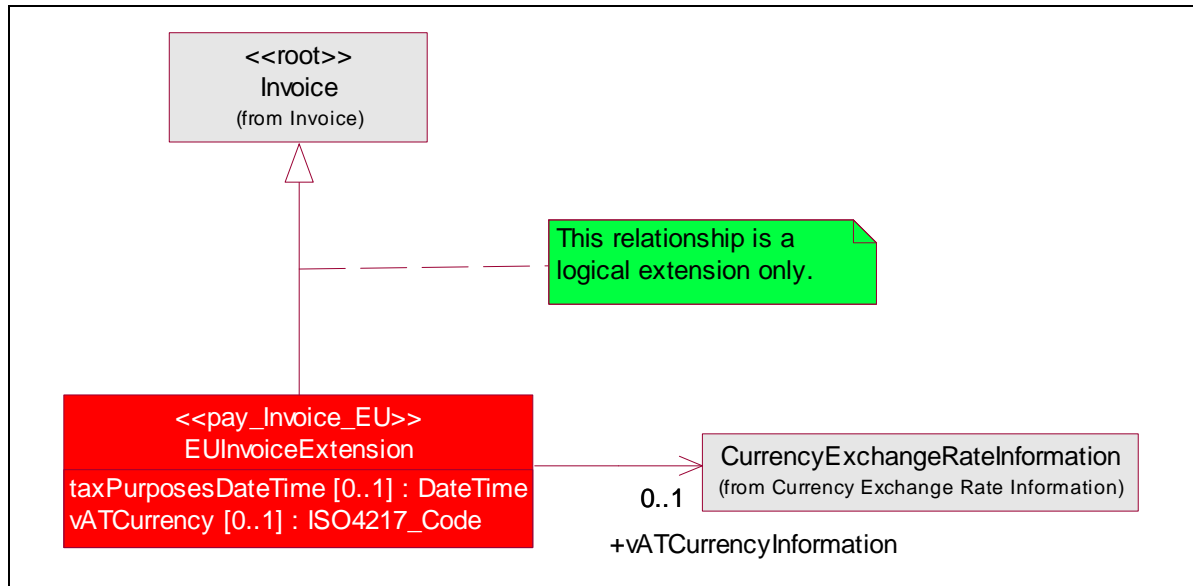
5.1.2. EU Invoice Line Item Extension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
EUInvoiceLineItemExtension				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.Delivered Quantity.Quantity	The quantity of articles or services which has been delivered to the delivery party.	0..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier		No Restrictions
	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.	1..1	Indicator. Content Indicator. Format. Text		No Restrictions
	isSupplyIntraCommunity			EU Invoice Line Item Extension.Is Supply Intra Community.Indicator	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.	1..1	Indicator. Content Indicator. Format. Text		No Restrictions
			DeliverDateInformation	EU Invoice Line Item Extension. Association. Deliver_ Date	Delivery Date Information specific to a line item within the context of the European Invoice.	0..1			
			DespatchInformation	EU Invoice Line Item Extension. Association. Despatch Information	Despatch Information specific to a line item within the context of the European Invoice.	0..1			
			InvoiceLineItem	Entity Reference. Inheritance. Invoice Line Item	Provides the invoice line item structure.	1..1			

5.2. Class Diagrams

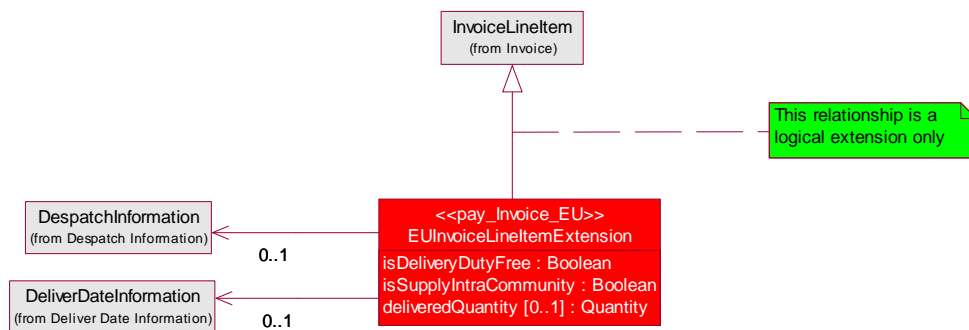
5.2.1. Class Diagram EU Invoice Extension

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
PartyIdentification (+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	
- paymentTermsEvent	DATE_OF_INVOICE
- paymentTermsType	DISCOUNT
DiscountPayment	
- discountType	Payment within 30 days
- discountPercent	1%
PaymentTimePeriod	
TimePeriodDue	
- timePeriod	DAYS
- value	30
EUInvoiceExtension	
- taxPurposesDateTime	2005-06-24T11:00:00
- vATCurrency	SEK
CurrencyExchangeRateInformation (+vATCurrencyInformation)	
- currencyConversionFrom	EUR
- currencyConversionTo	SEK
- exchangeRate	0.235
VATTaxInformationExtension	
- 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
TradeItemIdentification	
- 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
TradeItemIdentification	
- 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 Version	Associated CR Number
<ul style="list-style-type: none"> Removed deliveryParty in Class Diagram EUInvoiceExtension as it is the same as shipTo, which is already available in core 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.cyy) 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 "Restricted elements in BSD to the ones that are EU legislation", removed bullet 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 [1..1] for isDeliveryDutyFree in the EUInvoiceLineItemExtension Added the Multiplicity [1..1] 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" 	1.0.4	CR 04-00179

Change			BSD Version	Associated CR Number
7-442	vATDue[0..1] : VATPaymentDueList Definition VATDue: Provides the criteria when the VAT is due.	EUInvoiceExtension	1.1.0	CR 7-442
7-442	DUTY_TAX_OR_FEE_PAYMENT_DUE_ON_INVOICE_PAYMENT_DATE Definition Duty, tax or fee payment due on invoice payment date: Duty, tax or fee payment is due on the date when the invoice is paid	VATPaymentDueList		
7-442	DUTY_TAX_OR_FEE_PAYMENT_DUE_ON_INVOICE_ISSUE_DATE Definition Duty, tax or fee payment due on invoice issue date : Duty, tax or fee payment is due on the date when the invoice is issued.	VATPaymentDueList		
Reverted the changes from BSD Version 1.1.0 and incorporated as part of Invoice.			1.1.1	08-000209
Updated Footer and post for final public review as part of eCom 2.5.0 Release			1.1.2	
Updated BMS to Approved Status eBallot Approved Release 2.5.0			Issue 1.1.2	