

Business Message Standard (BMS)

for

Settlement

BRG: Pay

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31.12.2004	2.0.0	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD format	N/A
31.12.2004	2.0.0	John Ryu	Added updated class diagram and GDD information		
31.03.2005	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
15.11.2005	2.1.0	Coen Janssen	UIM CR	Several functional changes, listed in paragraph 1.10.	P4CL 7726
23.11.2005	2.1.1	Coen Janssen	Remarks from BRG Pay and IRT Upstream	Updated: 1.4.1 Use case diagram and description 1.4.2 Use case description 1.5 Information model (see paragraph 1.10 for details) 1.6 Example	P4CL 7824
14.12.2005	2.1.2	Coen Janssen	Peer review comments	Corrected several textual errors. Functional changes (see paragraph 1.10 for details). Adjusted the example accordingly.	P4CL 7927
20.02.2006	2.1.3	Coen Janssen	Technical development	Corrected the GDD report.	P4CL 8093
06.03.2006	2.1.4	Coen Janssen	Technical development	Corrected the GDD report.	P4CL 8135
25.04.2007	2.1.5	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

The goal of the Settlement message is to send payment instruction and / or remittance information. The remittance information can optionally include information on adjustments and/or discounts.

1.1.2 Objective

To supply the detailed design of a Settlement 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

Not applicable

1.1.5 References

Reference number	Reference Name
Ref1	Settlement – Business Requirement Document
Ref2	BRAD Upstream Standards – Financial Settlement

1.1.6 Acknowledgements

1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Chair	Henry Gerstman	WELLS FARGO CENTURY
BRG Chair	Joel Goldberg	ROSENTHAL & ROSENTHAL
BRG Member	Janet Bailey	VF CORPORATION
BRG Member	J. Craig Brinkman	PROCTER & GAMBLE
BRG Member	Glenda Connoll	GS1 SOUTH AFRICA
BRG Member	Arne Dicks	GS1 GERMANY
BRG Member	Karina Duvinger	GS1 SWEDEN
BRG Member	Suzanne Fassler	JCPENNEY CO. INC.
BRG Member	Brenda Hall	WAL-MART STORES INC.
BRG Member	Sandra Hurd	THE CIT GROUP
BRG Member	Catherine Karim	GS1 FRANCE
BRG Member	Ana Paula Maniero	GS1 BRASIL
BRG Member	Patricia Owyang	LEVI STRAUSS & CO.
BRG Member	Marie Perry	COCA-COLA ENTERPRISES
BRG Member	Merriel Simmons	7-ELEVEN, INC.
BRG Member	Seiichi Saito	DCC JAPAN
BRG Member	Bill Steger	AHOLD FINANCIAL SERVICES
BRG Member	Laura Stone	PFIZER, INC.
BRG Member	Jose Falcon Tuesta	GS1 PERU
BRG Manager	Tom Heist	GS1

1.1.6.2 ITRG Members

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

1.1.6.3 IRT Participants (Upstream Standards)

Function	Name	Company / organisation
IRT Chair	Fred Kempkes	Unilever
IRT Participant	Kevin Zeng	Procter & Gamble
IRT Participant	Stephen Bell	CPG Market
IRT Participant	Roland Dachs, Olivier Grienberger, Don Reed	Crown Cork
IRT Participant	Arthur Doldersum	SCA
IRT Participant	James Kimber	General Mills, Inc.
IRT Participant	Kristen Halwachs	UCCnet
IRT Participant	Nicola Comiotto, Menno Smit	Nestlé
IRT Participant	Pawel Solowinski	Kappa Packaging
IRT Participant	Peter Broend, Johannes Lundgren	Novozymes
IRT Participant	Paul Moodey	Johnson & Johnson
IRT Participant	Wouter Crul	Nspyre
IRT Participant	Thierry Baillif, Gabriel Galeazzi	Firmenich
IRT Participant	Jan Peter Klijn	Royal Sens
IRT Participant	Yasushi Kiyama	Ajinomoto Co.
IRT Participant	Georges Socquet	Givaudan
IRT Participant	Bala Vishwanath	Connect Global One AG

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Coen Janssen	GS1 Netherlands
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer	John Ryu	GS1

1.2 Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Pay
System Capabilities	EAN.UCC
Official Constraints	None

1.3 Additional Technical Requirements Analysis

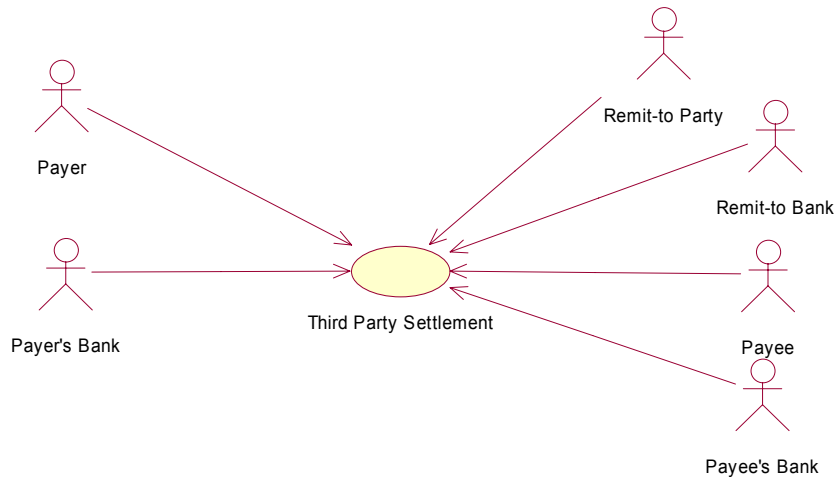
1.3.1 Technical Requirements (optional)

Not applicable

1.4 Business Transaction View

This section identifies business requirements and functions for Settlement. This section of the document will walk through the Settlement use case analysis.

1.4.1 Business Transaction Use Case Diagram – Third Party Settlement

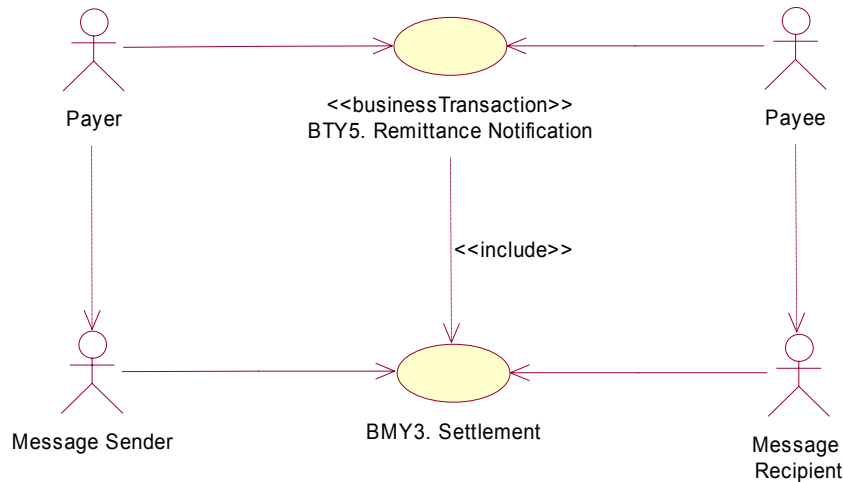


1.4.1.1 Use Case Description

Use Case ID	UC-1
Use Case Name	Third Party Settlement
Use Case Description	The goal of this Settlement use case is to send payment and remittance without adjustment, send remittance with adjustments and/or discounts, send payment and remittance with adjustment and/or discounts, send payment, send remittance without adjustments and/or discounts.
Actors (Goal)	The primary actors in the 'Settlement' process are the trading partners, comprised of Payer, Payee and Remit-To, along with the Payer's Bank, Payee's Bank and Remit-To's Bank.
Performance Goals	None
Preconditions	The Settlement process begins when the Payer has received one or more Payment Requests from Payee or Remit-To party. The Payee has already advised the Payer that the payment should be made to the Remit-To party.
Post conditions	Payer sends to Payee or Remit-To party the settlement information based on one of the following scenarios. 1. Payment and Remittance 2. Remittance only 3. Payment only
Scenario	Begins when Payer has received a Payment Request from the Payee and proc-

	esses it..		
	Continues with...		
	Step #	Actor	Activity Step
	1	Payer	receives a Request for Payment from the Payee.
	2	Payer	receives Request for Payment.
	3	Payer	reconciles Request for Payment.
	4	Payer	authorizes payment amount, including remittance detail if necessary.
	5	Payer	instructs Payer's Bank with payment amount and/or remittance detail and adjustment.
	5.1.		If payment through a third party, the Payer sends a copy of Settlement document to the Payee.
	6	Payer's Bank	receives instructions for payment amount and/or remittance detail.
	7	Payer's Bank	sends payment (and remittance detail) to Payee's, Remit-To's Bank.
	8	Payee's Bank	receives payment and remittance detail from Payer's Bank.
	9	Payee's Bank or Remit-To's Bank	advises Payee or Remit-To party of payment (and remittance detail) received from Payer's Bank.
	10	Payee	receives notification of payment and remittance detail from Payee's Bank.
	Ends when the payer sends payment and remittance without adjustments or discounts, payment and remittance with adjustments or discounts, remittance only, remittance with adjustments or payment only to the Payee.		
Alternative Scenario	None		
Related Requirements	None		
Related Rules	None		

1.4.2 Business Transaction Use Case Diagram – Remittance Notification



1.4.2.1 Use Case Description

Use Case ID	BTY5											
Use Case Name	Remittance Notification											
Use Case Description	The Remittance Notification is used to enable a payer to notify a payee of a forthcoming payment that is to be made for goods that were previously received. The Remittance Notification provides a detailed accounting description of any payments made in line with contracts, invoices and goods delivered to the payer. It should only be sent in line with the processing of a payment to a payee.											
Actors (Goal)	Payer: To send the Settlement message (containing the Remittance Notification). Payee: To receive the Settlement message (containing the Remittance Notification).											
Performance Goals												
Preconditions	Remittance notification created											
Post conditions	Remittance notification received											
Scenario	<p>Begins when: the Payer generates a based on the payment he will make.</p> <p>Continues with:</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1.</td><td>Payer</td><td>Sends the Settlement message to the payee.</td></tr><tr><td>2.</td><td>Payee</td><td>Receives the Settlement message.</td></tr></table> <p>Ends when:</p> <p>The Payee receives the Settlement message.</p>			Step #	Actor	Activity Step	1.	Payer	Sends the Settlement message to the payee.	2.	Payee	Receives the Settlement message.
Step #	Actor	Activity Step										
1.	Payer	Sends the Settlement message to the payee.										
2.	Payee	Receives the Settlement message.										
Alternative Scenario	Not applicable											
Business Transaction Rules	<table><tr><td>1.</td><td>For this transaction the transaction handling type REMITTANCE_ONLY must be used.</td></tr></table>			1.	For this transaction the transaction handling type REMITTANCE_ONLY must be used.							
1.	For this transaction the transaction handling type REMITTANCE_ONLY must be used.											

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1.5 Information Model (including GDD Report)

1.5.1 Data Description

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
AdjustmentAndDiscount				
	amount			[Ref1]
		None	AlternateAdjustmentReference	[Ref1]
		None	AdjustmentReason	[Ref1]
AlternateAdjustmentReference				
	alternateAdjustmentReferenceType			[Ref1]
	identification			[Ref1]
InvoiceDocumentReference				
		Inheritance	DocumentReference	
	invoiceType			[Ref2] {7.6.1-11}
Settlement				
	batchIdentification			[Ref1]
	paymentEffectiveDate			[Ref1]
	settlementCurrency			[Ref2] {7.6.1-5}
	totalAmount			[Ref1] , [Ref2] {7.6.1-8}
	transactionHandlingType			[Ref1]
		None	PaymentMethod	[Ref1]
		None	Document	[Ref1], [Ref2] {7.6.1-2}
		payer	PartyIdentification	[Ref1], [Ref2] {7.6.1-3}
		payersFinancialInstitution	PartyIdentification	[Ref1]
		remitToFinancialInstitution	PartyIdentification	[Ref1]
		remitTo	PartyIdentification	[Ref1]
		payee	PartyIdentification	[Ref1], [Ref2] {7.6.1-4}
		payeesFinancialInstitution	PartyIdentification	[Ref1]
		settlementIdentification	EntityIdentification	[Ref1], [Ref2] {7.6.1-1}

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		payerFinancialAccountInformation	FinancialInstitutionInformation	[Ref1], [Ref2] {7.6.1-6}
		payeeFinancialAccountInformation	FinancialInstitutionInformation	[Ref1], [Ref2] {7.6.1-7}
		remitToFinancialAccountInformation	FinancialInstitutionInformation	[Ref1]
SettlementLineItem				
	amountPaid			[Ref2] {7.6.1-10}
	originalAmount			[Ref1]
		None	AdjustmentAndDiscount	[Ref1]
		None	LineItem	[Ref1]
		invoice	InvoiceDocumentReference	[Ref2] {7.6.1-9}
		requestForPayment	DocumentReference	[Ref1]
		debitCreditAdvice	DocumentReference	[Ref1]

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1.5.2 GDD Report :

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AdjustmentAndDiscount				Adjustment And Discount. Details	Information on an adjustment or discount that has or will be applied to a payment / settlement.	
	amount			Adjustment And Discount. Amount. Float_ Numeric	Monetary amount of adjustment including currency.	1..1
		None	AdjustmentReason	Adjustment And Discount. Association. Adjustment Reason	No definition required.	1..1
		None	AlternateAdjustmentReference	Adjustment And Discount. Association. Alternate Adjustment Reference	No definition required.	0..1
AlternateAdjustmentReference				Alternate Adjustment Reference. Details	Reference to document / event that explains why the adjustment is made.	
	alternateAdjustmentReferenceType			Alternate Adjustment Reference. Alternate Adjustment Reference Type. Code	Code identifying the type of document / event that supports the adjustment.	1..1
	identification			Alternate Adjustment Reference. Identification. Text	Unique identifier issued used for identifying document / event that supports the adjustment.	1..1
InvoiceDocumentReference				Invoice Document Reference. Details	Information on an Invoice that is referenced in another business document.	
	invoiceType			Invoice Document Reference. Invoice Type. Code	Code specifying the type of invoice.	1..1
		None	DocumentReference	Invoice Document Reference. Inheritance. Document Reference	No definition required.	1..1
Settlement				Settlement. Details	Identifies business requirements and functions for Settlement.	
	batchIdentification			Settlement. Batch Identification. Identifier	An identifier assigned to settlement instructions processed	0..1

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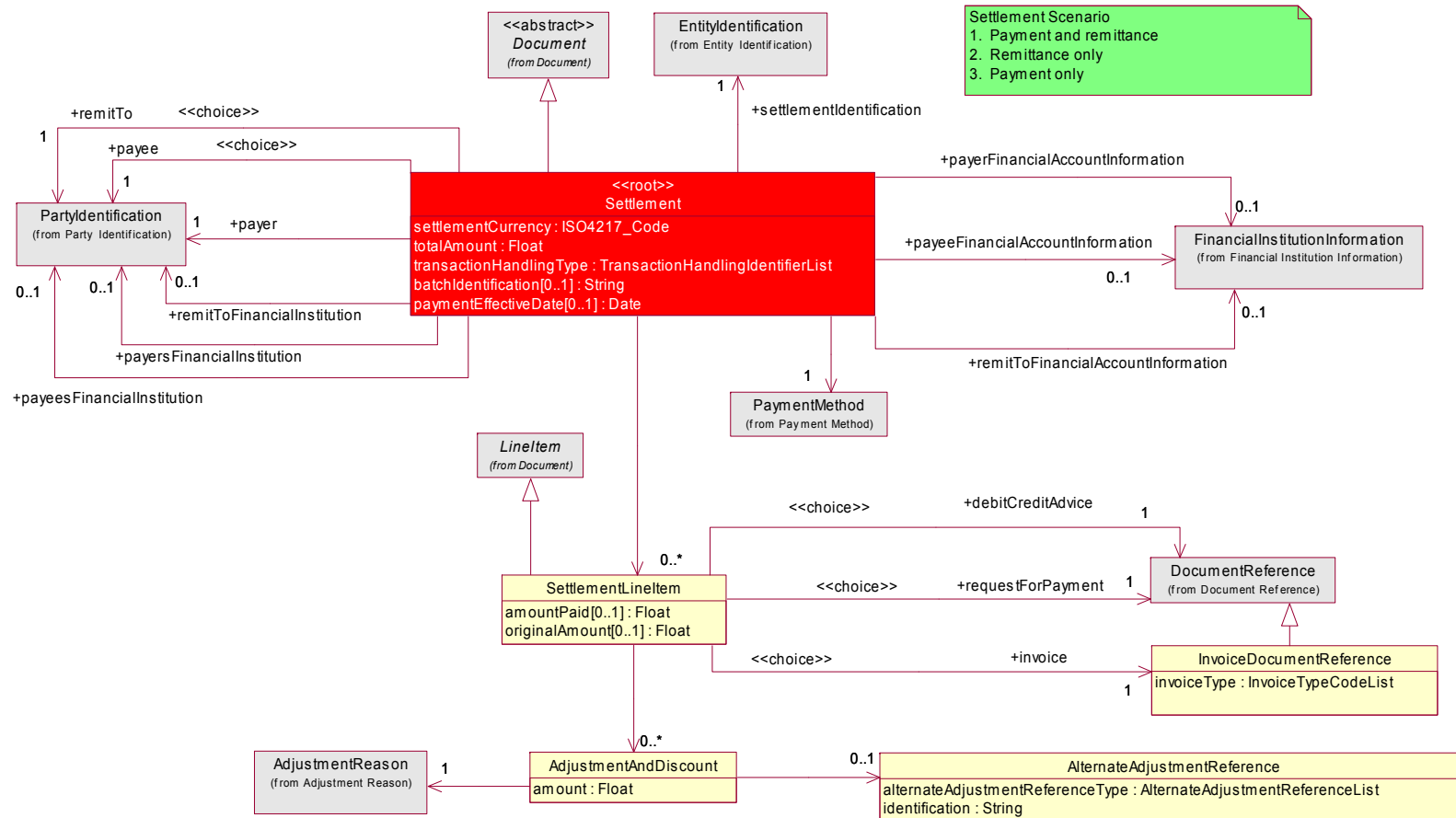
					as a batch.	
	paymentEffectiveDate			Settlement. Payment Effective Date. Date Time	Date that the payment has been or will be carried out.	0..1
	settlementCurrency			Settlement. Settlement Currency. Code	Currency in which the amounts in the message are stated.	1..1
	totalAmount			Settlement. Total Amount. Numeric	Total amount that will be settled.	1..1
	transactionHandlingType			Settlement. Transaction Handling Type. Code	Code describing the type of financial settlement that is being conducted.	1..1
		payeeFinancialAccountInformation	None	Settlement. Payee Financial Account Information. Financial Institution Information	Information on the financial account of the payee.	0..1
		payerFinancialAccountInformation	None	Settlement. Payer Financial Account Information. Financial Institution Information	Information on the financial account of the payer.	0..1
		remitToFinancialAccountInformation	None	Settlement. Remit To Financial Account Information. Financial Institution Information	Information on the financial account of the remit-to party.	0..1
		None	Document	Settlement. Inheritance Association. Electronic Document	Information on the financial account of the remit-to party.	1..1
		settlementIdentification	EntityIdentification	Settlement. Settlement Identification. Entity Identification	The unique identification of a document.	1..1
		payee	PartyIdentification	Settlement. Choice_ Payee. Party Identification	Identifies the credit party when other than the beneficiary.	1..1
		payeesFinancialInstitution	PartyIdentification	Settlement. Payees Financial Institution. Party Identification	Identifies the financial institution of the payee.	0..1
		payer	PartyIdentification	Settlement. Payer. Party Identification	Party initiating payment.	1..1
		payersFinancialInstitution	PartyIdentification	Settlement. Payers Financial Institution. Party Identification	Identifies the financial institution of the payer.	0..1
		remitTo	PartyIdentification	Settlement. Choice_ Remit To. Party Identification	The party (account owner) that receives a payment when such party is not the same as the seller.	1..1
		remitToFinancialInstitution	PartyIdentification	Settlement. Remit To Financial	Identifies the financial institu-	0..1

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				Institution. Party Identification	tion of the remit-to.	
		None	PaymentMethod	Settlement. Association. Pay_ Payment Method	Identifies the means of payment that applies to the settlement.	1..1
		None	SettlementLineItem	Settlement. Association. Settlement Line	Unique identifier for this line's information detail.	0..*
SettlementLineItem				Settlement Line Item. Details	Information about the amounts and the underlying requests being settled or paid.	
	amountPaid			Settlement Line Item. Amount Paid. Numeric	The actual amount being paid or settled.	0..1
	originalAmount			Settlement Line Item. Original Amount. Numeric	The original amount as stated in the referenced payment request.	0..1
		None	AdjustmentAndDiscount	Settlement Line Item. Association. Adjustment And Discount	Monetary amount of adjustment and discount including currency.	0..*
		debitCreditAdvice	DocumentReference	Settlement Line Item. Choice_ Debit Credit Advice. Document Reference	Reference to the debit credit advice that is being paid or settled.	1..1
		requestForPayment	DocumentReference	Settlement Line Item. Choice_ Request For Payment. Document Reference	Reference to the request for payment that is being paid or settled.	1..1
		invoice	InvoiceDocumentReference	Settlement Line Item. Choice_ Invoice. Invoice Document Reference	Reference to the invoice that is being paid or settled.	1..1
		None	LineItem	Settlement Line Item. Inheritance. Line Item	No definition required.	1..1

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1.5.3 Class Diagrams



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1.5.4 Code Lists

Code List Name	Code List Description
TransactionHandlingIdentifier	Code that refers to the senders action.
Code Name	Code Description
PAYMENT_AND_REMITTANCE	N/A
PAYMENT_ONLY	N/A
REMITTANCE_ONLY	N/A

Code List Name	Code List Description
AlternateAdjustmentReferenceList	Mandatory if alternate payment reference class is used to qualify the adjustment.
Code Name	Code Description
DEPARTMENT_NUMBER	N/A
LOCATION_NUMBER	N/A
OTHER_REQUEST_FOR_PAYMENT_IDENTIFICATION	N/A
PRO_NUMBER	N/A
RETURN_GOODS_AUTHORIZATION_NUMBER	N/A
SELLER_AUTHORIZATION_ALLOWANCE_NUMBER	N/A
STORE_NUMBER	N/A

1.6 Business Document Example

The following is an example of a settlement message. The message is sent on April 5th at 11 AM. The message is identified with the unique identifier 2005B09.

The settlement message is sent by the payer (8812345678903) to the payee (8712345678913).

The settlement refers to 2 invoices: 2005001 and 2005002.

Settlement	
- creationDateTime	2005-06-27T11:00:00
- documentStatus	ORIGINAL
- settlementCurrency	EUR
- totalAmount	3000
- transactionHandlingType	REMITTANCE_ONLY
EntityIdentification (+settlementIdentification)	
- uniqueCreatorIdentification	2005B09
PartyIdentification (+contentOwner)	
- gLN	8712345678913
PartyIdentification (+payer)	
- gLN	8812345678903
PartyIdentification (+payee)	
- gLN	8712345678913
FinancialInstitutionInformation (+payeeFinancialAccountInformation)	
- accountName	DUTCHBANK
AccountNumber	
- accountNumber	NL62510007547061
- accountNumberType	03_CHECKING_ACCOUNT
PaymentMethod	
- paymentMethodType	BANK_GIRO
SettlementLineItem *1	
- lineItemNumber	1
- amountPaid	2000
InvoiceDocumentReference (+invoice)	
- invoiceType	INVOICE
DocumentReference	
EntityIdentification	
- uniqueCreatorIdentification	2005001

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PartyIdentification (+contentOwner)	
- gLN	8712345678913
SettlementLineItem *2	
- lineItemNumber	1
- amountPaid	1000
- originalAmount	1500
InvoiceDocumentReference (+invoice)	
- invoiceType	INVOICE
DocumentReference	
EntityIdentification	
- uniqueCreatorIdentification	2005002
PartyIdentification (+contentOwner)	
- gLN	8712345678913
AdjustmentAndDiscount	
- amount	-500
AdjustmentReason	
- messageReason	04_ITEM_NOT_ACCEPTED_DAMAGED
- sourceCode	EANCOM
AlternateAdjustmentReference	
- alternateAdjustmentReferenceType	RETURN_GOODS_AUTHORIZATION_NUMBER
- identification	CLA200511-1

1.7 Implementation Considerations

Not applicable

1.8 Testing

1.8.1 Pass / Fail Criteria

Not applicable

1.8.2 Test Data

Refer to paragraph 1.6.

1.9 Appendices

Not applicable

1.10 Summary of Changes

Change	BMS Version	Associated CR Number
<p>Removed the following classes:</p> <ul style="list-style-type: none">• PaymentInformation• RequestForPaymentInformation• SettlementParty• SettlementReference <p>AlternateAdjustmentReference class:</p> <ul style="list-style-type: none">• Was renamed from old name AlternatePaymentReference. <p>Settlement class:</p> <ul style="list-style-type: none">• Renamed buyer into payer and seller into payee in all associations where these terms occurred.• Added existing associations to PartyIdentification (moved from SettlementParty class). Removed all choice stereotypes except two.• Added attribute settlementCurrency.• Added attributes settlementAmount, transactionHandlingType, paymentEffectiveDate (moved from from PaymentInformation class).• Renamed attribute settlementAmount into totalAmount• Added association with PaymentMethod class (moved from PaymentInformation).• Added association to FinancialInstitutionInformation with rolename of remitToFinancialAccountInformation. <p>SettlementLineItem class:</p> <ul style="list-style-type: none">• Added 3 associations to DocumentReference class, with rolenames invoice, requestForPayment, debitCreditAdvice. <p>AdjustmentAndDiscount class:</p> <ul style="list-style-type: none">• Association to AdjustmentReason: Removed rolename debitCreditAdviceReference, removed choice stereotype.• Association to AlternateAdjustmentReference: Removed choice stereotype, changed cardinality from 1 into 0..1.	2.1.0	CR 04-000229

New class InvoiceDocumentReference: <ul style="list-style-type: none">Contains attribute invoiceType and inheritance relation with DocumentReference SettlementLineItem class: <ul style="list-style-type: none">Changed association with rolename invoice to class DocumentReference, it now links to the new class InvoiceDocumentReference.	2.1.1	CR 04-000229
AlternateAdjustmentReference class: <ul style="list-style-type: none">Renamed attribute alternatePaymentReferenceType into alternateAdjustmentReferenceType Settlement class: <ul style="list-style-type: none">Renamed association remit-to into remitTo	2.1.2	CR 04-000229

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