



Business Message Standard (BMS) Settlement

BMS Release: 2.3.0, BRG Name: eCom

Issue 3.0.3, 25-May-2007

Document Summary

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20061119	Andy Kim, GS1 Australia	06-000305
20041215	Upstream, GS1	04-000229

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
Settlement Retail Store Location	20070111	Version 0.0.1
Common Library		Version 2.3
Settlement – Business Requirement Document	20040827	Version 1.3
BRAD Upstream Standards – Financial Settlement	20041207	Version 0.1.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20041231	2.0.0	John Ryu	Added updated class diagram and GDD information		
20050331	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
20051115	2.1.0	Coen Janssen	UIM CR	Several functional changes, listed in paragraph 1.10.	P4CL 7726

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
20051123	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
20051214	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
20060220	2.1.3	Coen Janssen	Technical development	Corrected the GDD report.	P4CL 8093
20060306	2.1.4	Coen Janssen	Technical development	Corrected the GDD report.	P4CL 8135
20070208	3.0.0	John Ryu	Update to BMS Template Version 1.6 and incorporate CR 06-000305	Changes noted in Summary of Changes section 10	MDL P4CL: 9025 BSD P4CL:9075
20070323	3.0.1	John Ryu	Peer Review incorporated eCom BRG motioned for TSD development	Changes noted in Summary of Changes section 10	BSD P4CL: 9100
20070412	3.0.2	John Ryu	Posted for Public Review	Updated to BMS Template Version 1.8	BSD P4CL: 9228
20070525	3.0.3	John Ryu	eCom BRG eballot approved	Updated BMS to Approved	BSD P4CL: 9460

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1. Business Domain View

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.

1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced BRAD(s).

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.

1.4. References

Reference Number	Reference Name	Description
[Ref1]	Business Requirement Document Settlement	Version 1.3
[Ref2]	BRAD Upstream Standards –Financial Settlement 0.1.0	Financial requirements for the Upstream IRT
[Ref3]	BRAD Settlement Retail Store Location	Version 0.0.1
	BSD Common Library	BMS Release Version 2.3

1.5. Acknowledgements

List of the individuals—and their companies—who participated in the creation, review and approval of this BMS.

1.5.1. BRG Work Group

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1.5.2. Design Team Members

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XML Technical Designer	Dipan ANARKAT	GS1
EANCOM Technical Designer	Not Applicable	
Peer Reviewer	Brian BENNETT	GS1

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	Global
Product	All
Process	Pay
System Capabilities	GS1 System
Official Constraints	None

3. Additional Technical Requirements Analysis

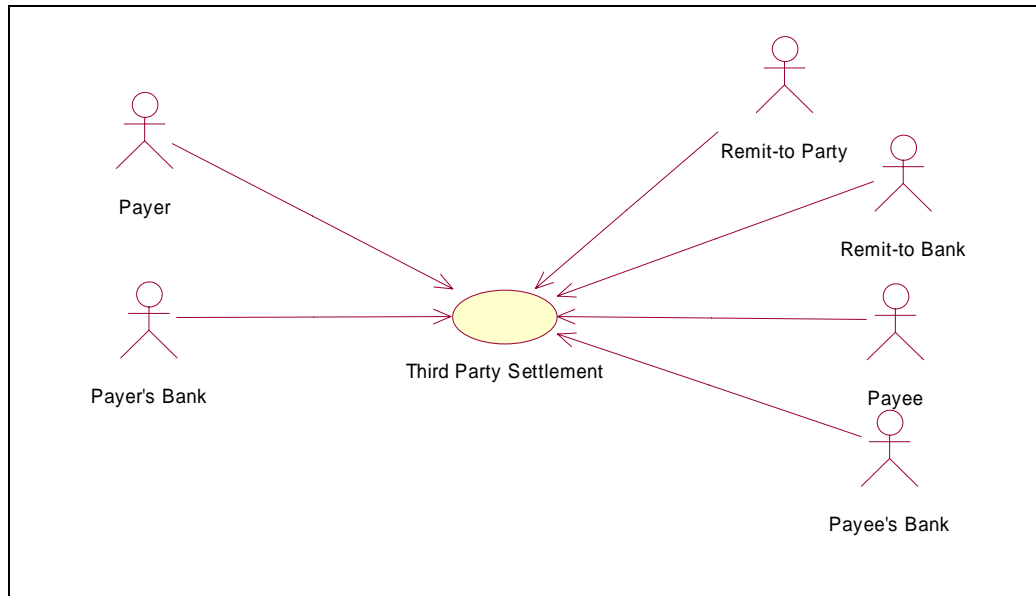
3.1. Technical Requirements (optional)

Number	Statement	Rationale
	No Technical Requirements	

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Figure 4-1 Parties and roles in the settlement processes



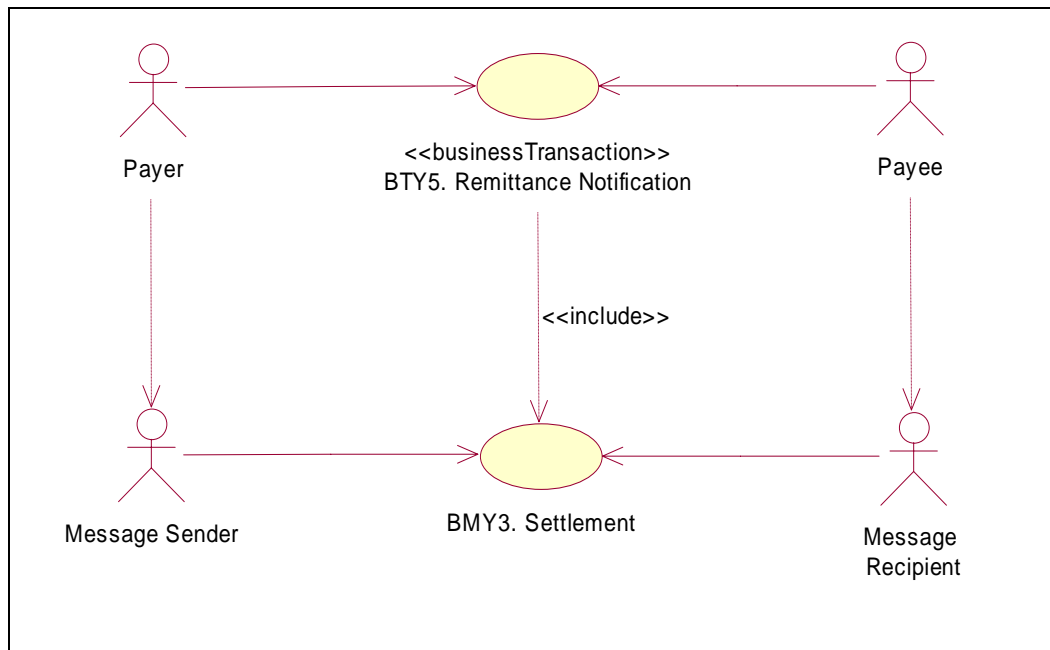
4.2. Use Case Description

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 processes it.																																				
	Continues with...																																				
	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Payer</td><td>Receives a Request for Payment from the Payee.</td></tr><tr><td>2</td><td>Payer</td><td>Receives Request for Payment.</td></tr><tr><td>3</td><td>Payer</td><td>Reconciles Request for Payment.</td></tr><tr><td>4</td><td>Payer</td><td>Authorizes payment amount, including remittance detail if necessary.</td></tr><tr><td>5</td><td>Payer</td><td>Instructs Payer's Bank with payment amount and/or remittance detail and adjustment.</td></tr><tr><td>6</td><td>Payer</td><td>If payment through a third party, the Payer sends a copy of Settlement document to the Payee.</td></tr><tr><td>7</td><td>Payer's Bank</td><td>Receives instructions for payment amount and/or remittance detail.</td></tr><tr><td>8</td><td>Payer's Bank</td><td>Sends payment (and remittance detail) to Payee's, Remit-To's Bank.</td></tr><tr><td>9</td><td>Payee's Bank</td><td>Receives payment and remittance detail from Payer's Bank.</td></tr><tr><td>10</td><td>Payee's Bank or Remit-To's Bank</td><td>Advises Payee or Remit-To party of payment (and remittance detail) received from Payer's Bank.</td></tr><tr><td>11</td><td>Payee</td><td>Receives notification of payment and remittance detail from Payee's Bank.</td></tr></table>	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.	6	Payer	If payment through a third party, the Payer sends a copy of Settlement document to the Payee.	7	Payer's Bank	Receives instructions for payment amount and/or remittance detail.	8	Payer's Bank	Sends payment (and remittance detail) to Payee's, Remit-To's Bank.	9	Payee's Bank	Receives payment and remittance detail from Payer's Bank.	10	Payee's Bank or Remit-To's Bank	Advises Payee or Remit-To party of payment (and remittance detail) received from Payer's Bank.	11	Payee	Receives notification of payment and remittance detail from Payee's Bank.
	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.																																		
	6	Payer	If payment through a third party, the Payer sends a copy of Settlement document to the Payee.																																		
	7	Payer's Bank	Receives instructions for payment amount and/or remittance detail.																																		
	8	Payer's Bank	Sends payment (and remittance detail) to Payee's, Remit-To's Bank.																																		
9	Payee's Bank	Receives payment and remittance detail from Payer's Bank.																																			
10	Payee's Bank or Remit-To's Bank	Advises Payee or Remit-To party of payment (and remittance detail) received from Payer's Bank.																																			
11	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	No Alternative Scenario																																				
	Begins when...																																				
	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>	Step #	Actor	Activity Step	1			2																													
	Step #	Actor	Activity Step																																		
	1																																				
2																																					
Ends when:																																					
Related Requirements	No Related Requirements																																				
Related Rules	No Related Rules																																				

4.3. Business Transaction Use Case Diagram

Figure 4-2 Use Case Diagram Remittance Notification



4.4. 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	None									
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: 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.								

Use Case ID	BTY5	
Alternative Scenario	No Alternative Scenario	
	Begins when...	
	Step #	Actor
	Activity Step	
Business Transaction Rules	1	
	2	
Ends when:		
Business Transaction Rules	1.	For this transaction the transaction handling type REMITTANCE_ONLY must be used.

4.5. Business Transaction Activity Diagram(s)

No Activity Diagram

4.6. Business Transaction Sequence Diagram(s) (optional)

No Sequence Diagram

5. Information Model (Including GDD Report)

5.1. GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
Adjustment AndDiscount				Information on an adjustment or discount that has or will be applied to a payment / settlement.			
	amount			Monetary amount of adjustment including currency.	1..1	Numeric. Content	[BRD Settlement Version 1.3]
		None	Adjustment Reason	Provides the adjustment reason for the adjustment and discount.	1..1		[BRD Settlement Version 1.3]
		None	AlternateAdjustmentReference	Provides the adjustment reference for the adjustment and discount.	0..1		[BRD Settlement Version 1.3]
AlternateAdjustmentReference				Reference to document / event that explains why the adjustment is made.			
	alternateAdjustmentReferenceType			Code identifying the type of document / event that supports the adjustment.	1..1	Code. Content Code List. Agenc. Identifier Code List. Agency Name. Text	[BRD Settlement Version 1.3]
	identification			Unique identifier issued used for identifying document / event that supports the adjustment.	1..1	Text. Content	[BRD Settlement Version 1.3]
InvoiceDocumentReference				Information on an Invoice that is referenced in another business document.			
	invoiceType			Code specifying the type of invoice.	1..1	Code. Content Code List. Agenc. Identifier Code List. Agency Name. Text	[BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-11}
		None	DocumentReference	Provides the referenced document.	1..1		[BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-11}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
Settlement				Identifies business requirements and functions for Settlement.			
	batchIdentification			An identifier assigned to settlement instructions processed as a batch.	0..1	Identification Scheme Agency. Identifier Identification Scheme Agency. Name. Text Identification Scheme Uniform Resource. Identifier	[BRD Settlement Version 1.3]
	paymentEffectiveDate			Date that the payment has been or will be carried out.	0..1	Date Time. Content Date Time. Format. Text	[BRD Settlement Version 1.3]
	settlementCurrency			Currency in which the amounts in the message are stated.	1..1	Code. Content Code List. Agenc. Identifier Code List. Agency Name. Text	[BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-5}
	totalAmount			Total amount that will be settled.	1..1	Numeric. Content Numeric. Format. Text	[BRD Settlement Version 1.3] , [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-8}
	transactionHandlingType			Code describing the type of financial settlement that is being conducted.	1..1	Code. Content Code List. Agenc. Identifier Code List. Agency Name. Text	[BRD Settlement Version 1.3]
		payeeFinancialAccountInformation	FinancialInstitutionInformation	Information on the financial account of the payee.	0..1		[BRD Settlement Version 1.3] , [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-7}
		payerFinancialAccountInformation	FinancialInstitutionInformation	Information on the financial account of the payer.	0..1		[BRD Settlement Version 1.3] , [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-6}
		remitToFinancialAccountInfo	FinancialInstitutionInformation	Information on the financial account of the remit-to party.	0..1		[BRD Settlement Version 1.3]

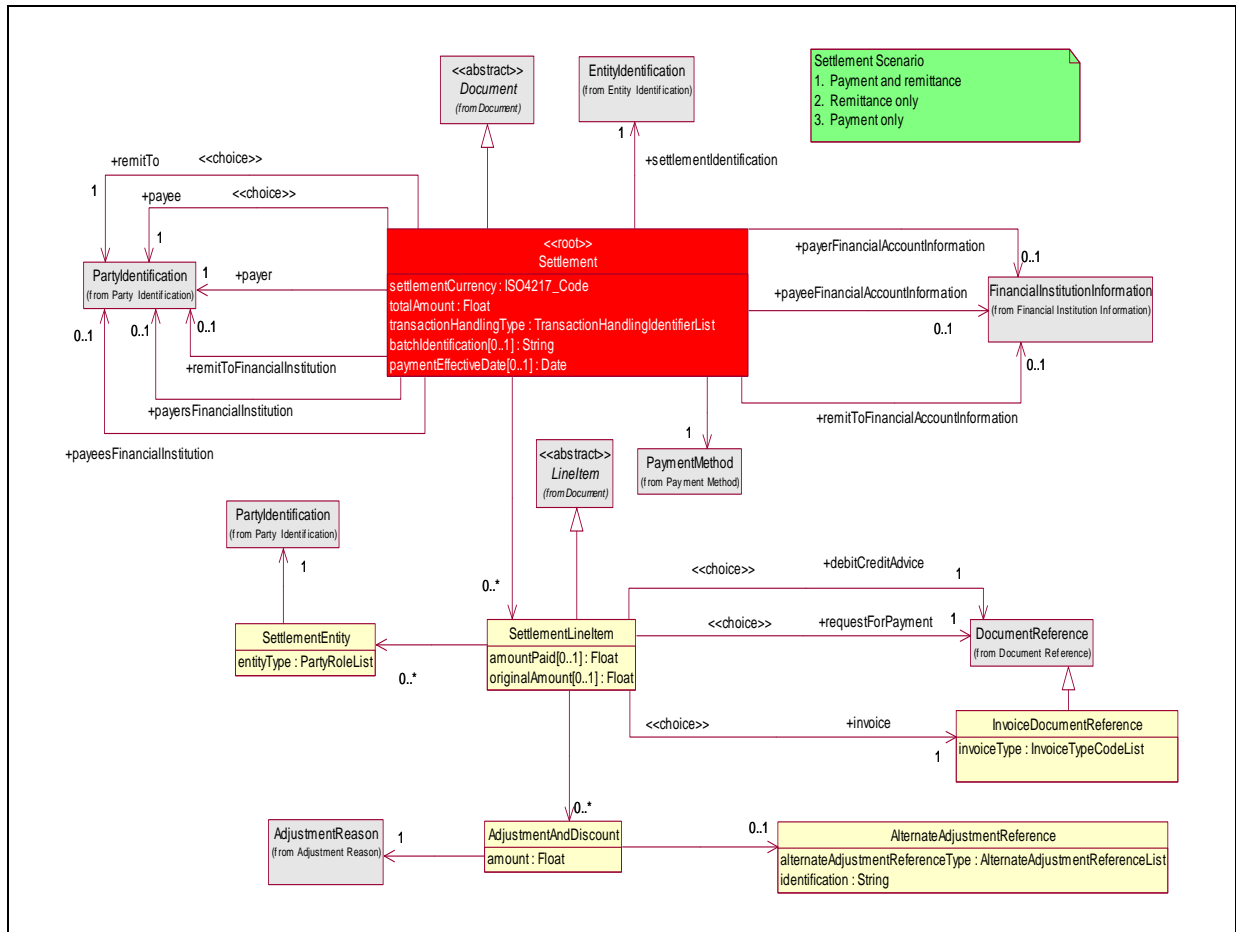
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
		Information	Information				
		None	Document	This information on Document for Settlement.	1..1		[BRD Settlement Version 1.3], [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-2}
		settlementIdentification	EntityIdentification	The unique identification of a document.	1..1		[BRD Settlement Version 1.3], [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-1}
		payee	PartyIdentification	Identifies the credit party when other than the beneficiary.	1..1		[BRD Settlement Version 1.3], [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-4}
		payeesFinancialInstitution	PartyIdentification	Identifies the financial institution of the payee.	0..1		[BRD Settlement Version 1.3]
		payer	PartyIdentification	Party initiating payment.	1..1		[BRD Settlement Version 1.3], [BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-3}
		payersFinancialInstitution	PartyIdentification	Identifies the financial institution of the payer.	0..1		[BRD Settlement Version 1.3]
		remitTo	PartyIdentification	The party (account owner) that receives a payment when such party is not the same as the seller.	1..1		[BRD Settlement Version 1.3]
		remitToFinancialInstitution	PartyIdentification	Identifies the financial institution of the remit-to.	0..1		[BRD Settlement Version 1.3]
		None	PaymentMethod	Identifies the means of payment that applies to the settlement.	1..1		[BRD Settlement Version 1.3]
		None	SettlementLineItem	Unique identifier for this line's information detail.	0..*		[BRD Settlement Version 1.3]
SettlementEntity				Information about the party involved in the settlement. Provides the party type and the			[BRAD Settlement Retail Store Location Version 0.0.1]{ BR1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Definition	Multiplicity	Data Type Components	Related Requirements
				Party GLN.			
	entityType			Identifies the parties involved in the Settlement.	1..1		[BRAD Settlement Retail Store Location Version 0.0.1] {BR1}
		None	PartyIdentification	Links the settlement party with the GLN.	1..1		[BRAD Settlement Retail Store Location Version 0.0.1] {BR1}
SettlementLineItem				Information about the amounts and the underlying requests being settled or paid.			
	amountPaid			The actual amount being paid or settled.	0..1	Numeric. Content Numeric. Format. Text	[BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-10}
	originalAmount			The original amount as stated in the referenced payment request.	0..1	Numeric. Content Numeric. Format. Text	[BRD Settlement Version 1.3]
		None	AdjustmentAndDiscount	Monetary amount of adjustment and discount including currency.	0..*		[BRD Settlement Version 1.3]
		debitCreditAdvice	DocumentReference	Reference to the debit credit advice that is being paid or settled.	1..1		[BRD Settlement Version 1.3]
		requestForPayment	DocumentReference	Reference to the request for payment that is being paid or settled.	1..1		[BRD Settlement Version 1.3]
		invoice	InvoiceDocumentReference	Reference to the invoice that is being paid or settled.	1..1		[BRAD Upstream Standards_Financial Settlement Version 0.1.0] {7.6.1-9}
		None	LineItem	Provides the line item details for settlement.	1..1		[BRD Settlement Version 1.3]
		None	SettlementEntity	Provides the Settlement parties applicable for this specific settlement line item.	0..*		[BRAD Settlement Retail Store Location Version 0.0.1]{BR1}

5.2. Class Diagrams

5.2.1. Class Diagram Settlement

Figure 5-1 Class Diagram Settlement



5.3. Code Lists

Following Code list are used for Settlement. Reference the GDD for code values.

- Invoice Type Code List
- Alternate Adjustment Reference List
- Party Role List
- Transaction Handling Identifier List

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.
- In this scenario, the buyer's corporate head office makes the payments on behalf one of its retail stores.
- The settlement message is sent by the payer (8812345678903) to the head office of the payee (8712345678913).
- The two invoices 2005001 and 2005002 were for orders/goods that were placed and received by a particular store location. The GLN for this store is GLN 8712345678926.
- The settlement refers to 2 invoices: 2005001 and 2005002.

7. Implementation Considerations

No Implementation Consideration

8. Testing

8.1. Pass / Fail Criteria

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

8.2. Test Data

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
SettlementEntity	
-entityType	STORE
PartyIdentification	
-gLN	8712345678926
InvoiceDocumentReference (+invoice)	
- invoiceType	INVOICE
DocumentReference	
EntityIdentification	
- uniqueCreatorIdentification	2005001
PartyIdentification (+contentOwner)	
- gLN	8712345678913

Settlement	
SettlementLineItem *2	
- lineItemNumber	1
- amountPaid	1000
- originalAmount	1500
SettlementEntity	
-entityType	STORE
PartyIdentification	
-gLN	8712345678926
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

9. Appendices

None

10. Summary of Changes

Change	BSD 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
<p>New class InvoiceDocumentReference:</p> <ul style="list-style-type: none"> Contains attribute invoiceType and inheritance relation with DocumentReference <p>SettlementLineItem class:</p> <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
<p>AlternateAdjustmentReference class:</p> <ul style="list-style-type: none"> Renamed attribute alternatePaymentReferenceType into alternateAdjustmentReferenceType <p>Settlement class:</p> <ul style="list-style-type: none"> Renamed association remit-to into remitTo 	2.1.2	CR 04-000229

Change	BSD Version	Associated CR Number
<p>Migrated the related Requirements from BMS Version 2.1.2 into GDD.</p> <p>Updated Test Data Sample</p> <p>Class Diagram: SettlementLineItem: Added association(0..*) to SettlementEntity.</p> <p>SettlementEntity New class created Added Attribute entityType: PartyRoleList Added Association(1..1) to PartyIdentification</p>	3.0.0	CR 06-000305
Added referenced Code List.	3.0.1	
Updated to BMS Template Version 1.8	3.0.2	