



Settlement

Business Message Standard (BMS)

Release 3.1

1-May-2013, Issue 1

Document Summary

Document Item	Current Value
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Work Group Name	eCom SMG
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Change Request Reference

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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
eCom Domain Common Library		Version 3.0
Shared Common Library		Version 3.0
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
2-Jan-2012	BMS 3.0 Issue 1.0.0	Coen Janssen	Publication of BMS release 3.0	
1-May-2013	BMS 3.1 draft 1	Coen Janssen	Update to 3.1	Noted in Summary of Changes

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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

This standard defines the transaction model and data model for the following business message:

- Settlement

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
[Ref4]	BMS eCom Domain Common Library	BMS Release Version 3.1
[Ref5]	BMS Shared Common Library	BMS Release Version 3.1

1.5. Acknowledgements

1.5.1. Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
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Member	Boikanyo, Rebhone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
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Member	Cook, Don	Wal-Mart Stores, Inc.
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Function	Name	Company / organisation
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Member	Shimazaki, Ayako	GS1 Japan
Member	Sion, Emilie	GS1 France
Member	Souza, Nadia	GS1 Brasil
Member	Strand, Roman	GS1 Germany
Member	Tan, Milton	GS1 Malaysia
Member	Tompsett, Simon	Waitrose
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Member	Tse, Steve	GS1 Hong Kong
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Member	Van den Bergh, Senne	GS1 Belgium & Luxembourg
Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
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Member	Wilson, Mary	GS1 US
Member	Windsperger, Bekki	Best Buy Co., Inc.
Member	Yang, Shaopeng	GS1 China
Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

1.5.2. Development Team Members

Function	Name	Organisation
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Standards Content Lead	Coen Janssen	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Eric Kauz	GS1 Global Office

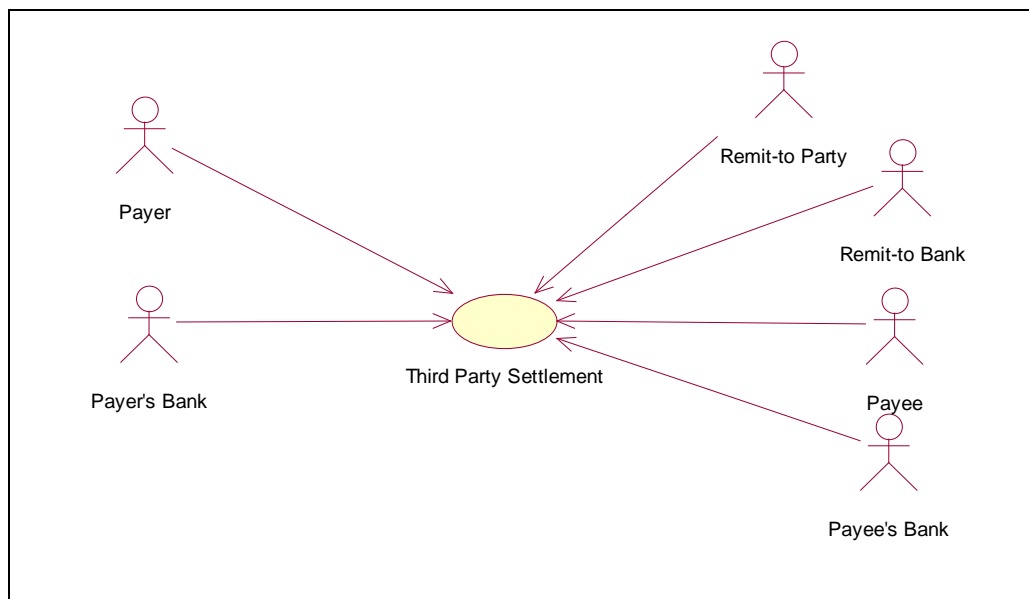
2. Business Context

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

3. Business Transaction View

3.1. Business Transaction - Third Party Settlement

Use Case Diagram



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. <div>1. Payment and Remittance</div> <div>2. Remittance only</div> <div>3. Payment only</div>																																				
Scenario	<div><div>Begins when...</div><div>Payer has received a Payment Request from the Payee and processes it.</div><div>Continues with...</div><table><thead><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><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></tbody></table><div>Ends when</div><div>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.</div></div>	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.																																			
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11	Payee	Receives notification of payment and remittance detail from Payee's Bank.																																			
Alternative Scenario	No Alternative Scenario																																				
Related Requirements	No Related Requirements																																				
Related Rules	No Related Rules																																				

Activity Diagram(s)

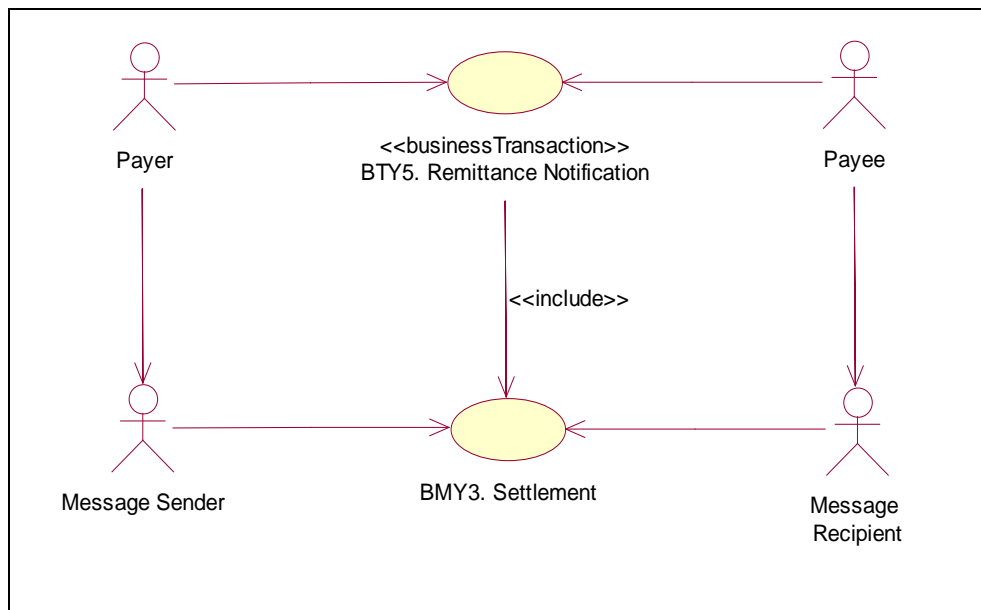
Not Applicable

Sequence Diagram(s)

Not Applicable

3.2. Business Transaction - Remittance Notification

Use Case Diagram



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	Begins when: the Payer generates a based on the payment he will make.		
	Continues with:		
	Step #	Actor	Activity Step
	1	Payer	Sends the Settlement message to the payee.
Scenario	2	Payee	Receives the Settlement message.
	Ends when: The Payee receives the Settlement message.		
Alternative Scenario	No Alternative Scenario		
Business Transaction Rules	1.	For this transaction the transaction handling type REMITTANCE_ONLY must be used.	

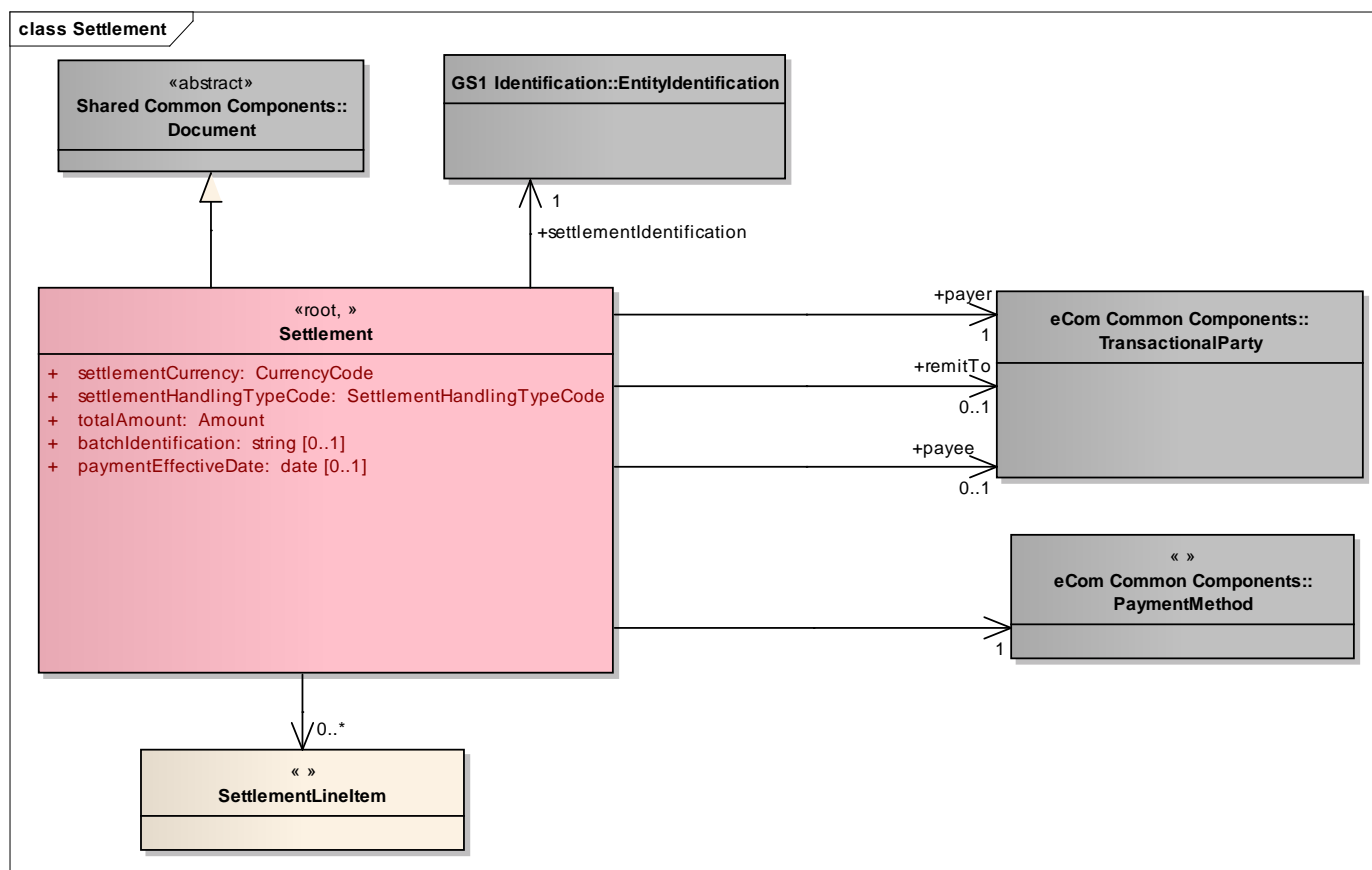
4. Business Information View



Note: Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for all common information.

4.1. Settlement

Class Diagram



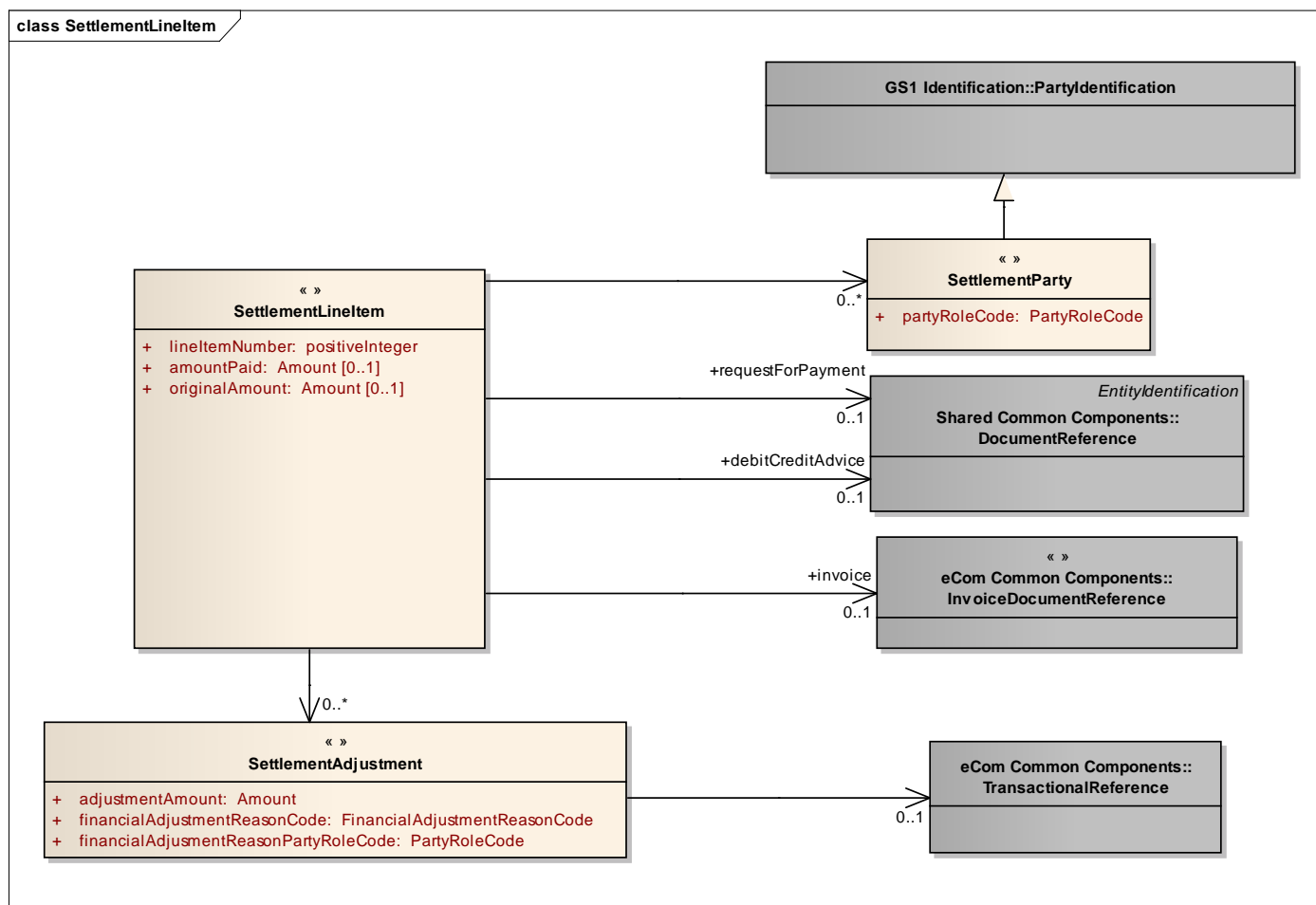
GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Settlement				The goal of the Settlement message is to send payment instruction and / or remittance information.	
Association	payee	TransactionalParty	0..1	Party receiving the payment.	
Association	remitTo	TransactionalParty	0..1	The party (account owner) that receives a payment when such party is not the same as the seller.	
Association	settlementIdentification	EntityIdentification	1..1	The unique identification of the Settlement document.	
Association		PaymentMethod	1..1	Identifies the means of payment that applies to the settlement.	
Association		SettlementLineItem	0..*	Information about the amounts and the underlying requests being settled or paid.	
Association	payer	TransactionalParty	1..1	Party initiating payment.	
Generalization		Document		Used to specify basic information about the content of the message including version number, creation date and time.	
Attribute	settlementCurrency	CurrencyCode	1..1	Currency in which the amounts in the message are stated.	
Attribute	settlementHandlingTypeCode	SettlementHandlingType Code	1..1	Code describing the type of financial settlement that is being conducted.	
Attribute	totalAmount	Amount	1..1	Total amount that will be settled.	
Attribute	batchIdentification	string	0..1	An identifier assigned to settlement instructions processed as a batch.	
Attribute	paymentEffectiveDate	date	0..1	Date that the payment has been or will be carried out.	
SettlementParty				Information about the party involved in the settlement. Provides the party type and the Party GLN.	
Generalization		PartyIdentification			

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	partyRoleCode	PartyRoleCode	1..1	Code specifying the party that assigned the reason for the adjustment. Example: buyer or seller.	

4.2. Settlement Line Item

Class Diagram



GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
SettlementLineItem				Information about the amounts and the underlying requests being settled or paid.	
Association	invoice	InvoiceDocumentReference	0..1	Reference to the invoice that is being paid or settled.	
Association		SettlementAdjustment	0..*	Information on adjustments or discounts that have or will be applied to a payment / settlement.	
Association		SettlementParty	0..*	Provides the Settlement parties applicable for this specific settlement line item.	
Association	requestForPayment	DocumentReference	0..1	Reference to the request for payment that is being paid or settled.	
Association	debitCreditAdvice	DocumentReference	0..1	Reference to the debit credit advice that is being paid or settled.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Settlement Line Item.	
Attribute	amountPaid	Amount	0..1	The actual amount being paid or settled.	
Attribute	originalAmount	Amount	0..1	The original amount as stated in the referenced payment request.	
SettlementAdjustment				Information on an adjustment or discount that has or will be applied to a payment / settlement.	
Association		TransactionalReference	0..1	Reference related to the settlement adjustment.	
Attribute	adjustmentAmount	Amount	1..1	Monetary amount of the adjustment including currency.	
Attribute	financialAdjustmentReasonCode	FinancialAdjustmentReasonCode	1..1	Code specifying the reason for the adjustment.	
Attribute	financialAdjustmentReasonPartyRoleCode	PartyRoleCode	1..1	Code specifying the role of the party that assigned the adjustment r.	

4.3. Code Lists



Note: Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for all Code Lists

Class	Codelist	Referenced in
Settlement	CurrencyCode	Shared Common Library Business Message (BMS) Release 3.0.0
Settlement	SettlementHandlingTypeCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0
SettlementParty SettlementLineItem	PartyRoleCode	Shared Common Library Business Message (BMS) Release 3.0.0
SettlementLineItem	FinancialAdjustmentReasonCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

5. Business Message 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.

Settlement	
- creationDateTime	2005-06-27T11:00:00
- documentStatusCode	ORIGINAL
- settlementCurrency	EUR
- settlementHandlingTypeCode	REMITTANCE_ONLY
- totalAmount	3000 EUR
EntityIdentification (+settlementIdentification)	
- entityIdentification	2005B09
PartyIdentification (+contentOwner)	
- gln	8712345678913
TransactionalParty (+payer)	
- gln	8812345678903
TransactionalParty (+payee)	

- gln	8712345678913
FinancialInstitutionInformation	
- accountName	DUTCHBANK
FinancialAccount	
- financialAccountNumber	NL62510007547061
- financialAccountNumberTypeCode	CHECKING_ACCOUNT
PaymentMethod	
- paymentMethodCode	BANK_GIRO
SettlementLineItem *1	
- lineItemNumber	1
- amountPaid	2000 EUR
SettlementParty	
- partyRoleCode	STORE
PartyIdentification	
- gln	8712345678926
InvoiceDocumentReference (+invoice)	
- invoiceType	INVOICE
- entityIdentification	2005001
PartyIdentification (+contentOwner)	
- gln	8712345678913
SettlementLineItem *2	
- lineItemNumber	1
- amountPaid	1000 EUR
- originalAmount	1500 EUR
SettlementParty	
- partyroleCode	STORE
PartyIdentification	
- gln	8712345678926
InvoiceDocumentReference (+invoice)	
- invoiceType	INVOICE
- entityIdentification	2005002
PartyIdentification (+contentOwner)	
- gln	8712345678913
SettlementAdjustment	
- adjustmentAmount	-500 EUR
- financialAdjustmentReasonCode	3
- financialAdjustmentReasonPartyRoleCode	INFORMATION_PROVIDER
TransactionalReference	

- transactionalReferenceTypeCode	ALQ
- entityIdentification	CLA200511-1

6. Implementation Considerations

Not Applicable

7. Appendices

Not Applicable

8. Summary of Changes

8.1. BMS Release 3.0

Change	BSD Version	Associated CR Number
For BMS Release 3.0.0: Updated to reflect changes in modelling methodology.	Issue 1.0.0	Not Applicable

8.2. BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.