Business Message Standard (BMS) Advanced Remittance Notification

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21-Apr-2006	John Ryu	06-000097

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Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
January 2, 2002	Issue 1.0.0	Coen Janssen	Publication of BMS release 3.0.0		

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1. Business Domain View

1.1. Problem Statement / Business Need

The Advanced Remittance Notification is sent by the buyer to the seller upon reception of goods. The intent of the Advanced Remittance Notification is:

1. for the buyer to indicate the payment that will be made for goods actually received;
2. to communicate discrepancies that exist between the seller's shipping documents and the buyer's receiving documents.

1.2. Objective

To supply the detail design of the Advanced Remittance Notification business transaction needed to meet the requirements of the Collaborative Receipt Settlement BRAD.

1.3. Audience

Stakeholders are identified as retailer buying offices, logistics and financial services that interact with the Accounts Payable (A/P) process. Stakeholders identified for suppliers are sales, logistics and financial services that interact with the Accounts Receivable (A/R) process.

1.4. References

Reference Number	Reference Name	Description
[ref1]	Order	Business Message Standard
[ref2]	Despatch Advice	Business Message Standard
[ref3]	Request for Payment	Business Message Standard
[ref4]	Advance Ship Notice	EDI X12 856
[ref5]	Claims Debit Credit Advice	EDI X12 812 EANCOM Claims message RETANN Announcement for returns RETINS Instructions for returns
[ref6]	Receiving Advice	Business Message Standard
[ref7]	Settlement	Business Message Standard
[ref8]	eCom Domain Common Library	Components used commonly within the eCom domain
[ref9]	Shared Common Library	Components used in both GDSn and the eCom Domain.

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1.5. Acknowledgements

1.5.1. Work Group

Function	Name	Company / organisation
Chair eCom BRG	Edison, Carol	General Mills, Inc.
Chair MR3 subteam	Spaan, Stef	GS1 Netherlands
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Member	Trelle, Ute	SA2 Worldsync GmbH

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Member	Windsperger, Bekki	Best Buy Co., Inc.

1.5.2. Design Team Members

Function	Name	Organisation
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XML Technical Designer	Dipan Anarkat	GS1 Global Office
Peer Reviewer	John Ryu / Eric Kauz	GS1 Global Office

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2. Business Context

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

3. Additional Technical Requirements Analysis

Not Applicable

3.1. Technical Requirements (optional)

Number	Statement	Rationale
	Not Applicable	

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4. Business Transaction View

4.1. Business Transaction Use Case Diagram

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4.2. Use Case Description

Use Case ID	UC-1
Use Case Name	Perform Collaborative Receipt Settlement Process
Use Case Description	Collaborative Receipt Settlement
Actors (Goal)	Buyer (Retailer): The retailer is the party that orders, receives goods and makes payment for goods. The retailer is also the buyer in the EAN.UCC Trade of Goods and Services Model. Within the Global Data Synchronization Network the retailer may be identified with the role of data recipient. Seller (Supplier): The supplier is the party that receives orders, delivers goods and receives payment for goods. The supplier is also the seller in the EAN.UCC Trade of Goods and Services Model. Within the Global Data Synchronization Network the supplier may be identified with the role of data source. Third Party (Factor): The factor is a financial institution that represents the supplier in matters related to receipt of payment and adjustments to payment. The factor is also a third party in the EAN.UCC Trade of Goods and Services Model.
Performance Goals	To perform and execute the Collaborative Receipt Settlement process.
Preconditions	Master Data alignment and item, party and price synchronization
Post conditions	Buyer submits the final remittance to the seller or the third party.
Scenario	**Begins when** purchase order is generated either by the buyer or seller. **Continues with**...

Step #	Actor	Activity Step
1	Seller	Sends DA or ASN to the Buyer
2	Buyer	Receives the DA or ASN
3	Seller	Ships the product with the BOL
4	Buyer	Receives the product with BOL
5	Buyer	Checks receipt of goods (quantity received) to the shipping document (ASN, DA, and/or BOL) to quantity received.
6	Buyer	Analyse if there are any discrepancies or if reconciliation is needed.
6A	Buyer	If discrepancy or reconciliation is needed, proceed to step 7
6B	Buyer	If there is no discrepancy or reconciliation needed, Sends ARN proceed to step 8
7	Buyer	Analyse if the reconciliation can be fulfilled in the ARN.
7A	Buyer	If reconciliation can be fulfilled in ARN, Send ARN proceed to step 8
7B	Buyer	If reconciliation cannot be fulfilled in the ARN, then Buyer sends ARN and CN and proceed to step 9.
8	Seller/ Third Party	Receives ARN
9	Seller/ Third Party	Receives ARN & CN.
10	Seller	Analyse if there are any discrepancies or if reconciliation is needed
10A	Seller	If discrepancy or reconciliation is needed, proceed to step 11
10B	Seller	If there is no discrepancy or reconciliation needed, proceed to End
11	Seller	Sends CN
12	Buyer / Third Party	Receives CN
13	Buyer	Analyse if there are any outstanding discrepancies
13A	Buyer	If there are outstanding discrepancies, proceed to step 14
13B	Buyer	If there is no outstanding discrepancy, proceed to step 16
14	Buyer	Sends CN

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	15	Seller / Third Party	Receives CN, proceed to step 10
	16	Buyer	Sends Payment/Remittance with reference to all previous ARN and CN
	Ends when... Seller or Third Party receives Final Payment/Remittance.		
Alternative Scenario	*(any alternatives to the above scenario)*		
	No alternative scenario		
	Step #	**Actor**	**Activity Step**
Related Requirements	No related requirements		
	1		
Related Rules	No related rules.		

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4.3. Business Transaction Activity Diagram(s)

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5. Information Model (Including GDD Reports)

5.1. GDD Reports

5.1.1. GDD Report: Advanced Remittance Notification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AdvancedRemittanceNotification				The Advanced Remittance Notification is sent by the buyer to the seller upon reception of goods. The intent of the Advanced Remittance Notification is: 1. for the buyer to indicate the payment that will be made for goods actually received; 2. to communicate discrepancies that exist between the seller's shipping documents and the buyer's receiving documents.	
Association	seller	TransactionalParty	1..1	Party selling merchandise to a buyer.	
Association	buyer	TransactionalParty	1..1	Party to whom merchandise and/or service is sold.	
Association	payee	TransactionalParty	0..1	Identifies the credit party when other than the beneficiary.	
Association	remitTo	TransactionalParty	0..1	The party (account owner) that receives a payment when such party is not the same as the seller.	
Association	shipFrom	TransactionalParty	0..1	Identification of the location from where goods will be or have been shipped.	
Association	shipTo	TransactionalParty	0..1	Party to where goods will be or have been shipped.	
Association	advancedRemittanceNotificationIdentification	EntityIdentification	1..1	A unique number identifying the Advanced Remittance Notification.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association	purchaseOrder	DocumentReference	1..1	A unique number identifying the purchase order number to be used to synchronize/correlate to each trading partner's respective accounts receivable and accounts payable files.	
Association	despatchAdvice	DocumentReference	1..1	A unique number identifying the Despatch Advice (Advanced Shipping Notice) to synchronize/correlate to each trading partner's accounts receivable and accounts payable.	
Association	billOfLading	DocumentReference	0..1	A unique number that identifies the Bill of Lading to be used to synchronize /correlate to each trading partner's respective accounts receivable and accounts payable files.	
Association		RemittanceItemReceivedInformation	1..*	Additional information at item level for goods received on the Advanced Remittance Notification.	
Generalization		Document		Electronic document details of the Advanced Remittance Notification.	
Attribute	expectedPaymentDate	date	1..1	Date at which payment is expected by the seller for the goods received by the buyer.	
Attribute	isThereADiscrepancy	boolean	1..1	A flag to indicate if there were discrepancies between the seller's shipping documents and the buyer's receiving documents or not.	
Attribute	receiptOfGoodsDate	date	1..1	Date at which the goods sold by the seller are received by the buyer.	
RemittanceItemReceivedInformation				Additional information at item level with regards to the Advanced Remittance Notification.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		RemittanceItemDiscrepancyInformation	0..1	Information with regards to a stated discrepancy between the goods the buyer received and the seller shipped.	
Association		TransactionalTradeItem	1..1	The unique identifier for the goods and services received and mentioned in the Advanced Remittance Notification.	
Attribute	itemReceivedQuantity	Quantity	1..1	Identifies the quantity of items received by the buyer.	
Attribute	alignedPrice	Amount	0..1	Price expressed as a monetary value. Through alignment between parties, this price has been previously agreed to.	

5.1.2. GDD Report: Remittance Item Discrepancy Information

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
RemittanceItemDiscrepancyInformation				Information with regards to a stated discrepancy between the goods the buyer received and the seller shipped.	
Association		LeviedDutyFeeTax	0..1	Information on the payment of taxes at trade item level for items for which a discrepancy was noted, within the Advanced Remittance Notification. This includes the amount of taxes to be paid and the type of tax.	
Association		RemittanceItemPaymentAdjustment	0..1	Additional information with regards to discounts applied to the payment for an item.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		PaymentTimePeriod	0..1	Information on the period of time within which payment is made at trade item level for items for which a discrepancy was noted, within the Advanced Remittance Notification.	
Attribute	isAllowanceChargeIncluded	Boolean	1..1	A flag to indicate whether or not allowances and charges are included in the Advanced Remittance Notification. By default, this is not the case.	
Attribute	itemDiscrepancyQuantity	Quantity	1..1	This is the quantity of discrepancy at item-level within the Advanced Remittance Notification, if a discrepancy is noted between the seller's shipping documents and the buyer's receiving documents.	
Attribute	receivingConditionCode	ReceivingConditionCode	1..1	Code specifying the condition in which goods, inclusive containers, have been received.	
RemittanceItemPaymentAdjustment				Additional information on discount on payments, allowances and charges to be made for items mentioned in the Advanced Remittance Notification.	
Attribute	nonProductChargeAmount	Amount	0..1	Amount, which is non product related, that is charged to the buyer by the seller.	
Attribute	nonProductChargeDescription	Description80	0..1	Description of the non-product related charge to the buyer by the seller.	

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Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	paymentDiscountAmount	Amount	0..1	Amount of currency received as a discount on the amount to be paid for the goods received by the buyer.	
Attribute	paymentDiscountPercentage	Float	0..1	Discount on the amount to be paid for the goods received by the buyer, expressed in percents.	
Attribute	promotionalAllowanceAmount	Amount	0..1	Allowance, due to a promotion, on the amount to be paid for the goods received by the buyer.	
Attribute	promotionalAllowanceDescription	Description80	0..1	Description of the Allowance, due to a promotion, on the amount to be paid for the goods received by the buyer.	

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5.2. Class Diagrams

5.2.1. Class Diagram: Advanced Remittance Notification

Figure 5-1 Class Diagram: Advanced Remittance Notification

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.

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5.2.2. Class Diagram: Remittance Item Discrepancy Information

Figure 5-2 Class Diagram: Remittance Item Discrepancy Information

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.

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5.3. 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
RemittanceItemDiscrepancyInformation	ReceivingConditionCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

6. Business Document Example

The following is an example of an Advanced Remittance Notification message. The message is sent out on March 3 at 11 AM. The message is identified with the unique identifier 20051101. The content owner is the sending party, in this case the retailer (Buyer 8712345678913).

The Advanced Remittance Notification is sent by the retailer (Buyer 8712345678913) to the Supplier (Seller 8812345678903).

Example 1:

Simple Scenario

There is no discrepancy.

Parties involved:

Retailer (Buyer 8712345678913)

Supplier (Seller 8812345678903)

Ship From (1234567890123)

Ship To (3456789012345)

Remit To (5678901234567)

Receiving Information:

GTIN (12345678901234)

Quantity Received (100)

Synchronised Price (33 USD)

AdvancedRemittanceNotification	
- creationDateTime	2005-03-03T11.00.00
- documentStatusCode	ORIGINAL
- expectedPaymentDate	2005-04-15

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- isThereADiscrepancy	FALSE
- receiptOfGoodsDate	2005-02-19
EntityIdentification (+advancedRemittanceNotificationIdentification)	
- entityIdentification	20051101
PartyIdentification (+contentOwner)	
- gln	8712345678913
TransactionalParty (+remitTo)	
- gln	5678901234567
FinancialInstitutionInformation	
financialInstitutionName	HSBC
FinancialAccount	
accountNumber	333666
accountNumberType	CHECKING_ACCOUNT
TransactionalParty (+buyer)	
- gln	8712345678913
TransactionalParty (+seller)	
- gln	8812345678903
TransactionalParty (+shipFrom)	
- gln	1234567890123
TransactionalParty (+shipTo)	
- gln	3456789012345
DocumentReference (+despatchAdvice)	
- creationDateTime	2005-01-15T11.00.00
- entityIdentification	ASN321123
DocumentReference (+purchaseOrder)	
- creationDateTime	2005-01-01T11.00.00
- entityIdentification	PO964321
RemittanceItemReceivedInformaiton	
- itemReceivedQuantity	100
- alignedPrice	33 USD
TransactionalTradeItem	
- gtin	12345678901234

Example 2:

Complex Scenario

There is a discrepancy.

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Parties involved:

Retailer (Buyer 8712345678913)

Supplier (Seller 8812345678903)

Ship From (1234567890123)

Ship To (3456789012345)

Remit To (5678901234567)

Receiving Information:

GTIN (12345678901234)

Quantity Received (100)

Synchronised Price (33 USD)

This is the beginning of the discrepancy information*

Item Discrepancy Information

No allowance Charge

ItemDiscrepancyQuantity 10

ItemDiscrepancyType: DAMAGED_PRODUCT_OR_CONTAINER

ItemDiscrepancySynchronisedPrice 33 USD

Trade Item Tax Information

Tax Amount 1 USD

Tax Agency

Tax agency code: US Federal Government

Tax Type Code: Business Sales

Tax Type Description: Internet Sales

No Payment Discount

AdvancedRemittanceNotification	
- expectedPaymentDate	2005-04-15
- isThereADiscrepancy	FALSE
-receiptOfGoodsDate	2005-02-19
Document	
- creationDateTime	2005-03-03T11.00.00
- documentStatusCode	ORIGINAL
EntityIdentification (+advancedRemittanceNotificationIdentification)	

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- entityIdentification	20051101
PartyIdentification (+contentOwner)	
- gln	8712345678913
TransactionalParty (+remitTo)	
- gln	5678901234567
FinancialInstitutionInformation	
financialInstitutionName	HSBC
FinancialAccount	
accountNumber	333666
accountNumberType	CHECKING_ACCOUNT
TransactionalParty (+buyer)	
- gln	8712345678913
TransactionalParty (+seller)	
- gln	8812345678903
TransactionalParty (+shipFrom)	
- gln	1234567890123
TransactionalParty (+shipTo)	
- gln	3456789012345
DocumentReference (+despatchAdvice)	
- creationDateTime	2005-01-15T11.00.00
- entityIdentification	ASN321123
DocumentReference (+purchaseOrder)	
- creationDateTime	2005-01-01T11.00.00
- entityIdentification	PO964321
RemittanceItemReceivedInformaiton	
- itemReceivedQuantity	100
- alignedPrice	33 USD
TransactionalTradeItem	
- gtin	12345678901234
RemittanceItemDiscrepancyInformation	
- isAllowanceChargeIncluded	FALSE
- ItemDiscrepancyQuantity	10
- receivingConditionCode	DAMAGED_PRODUCT_OR_CONTAINER
LeviedDutyFeeTax	
- dutyFeeTaxAgencyName	US Federal Government
- dutyFeeTaxAmount	1 USD
- dutyFeeTaxDescription	Internet Sales
- dutyFeeTaxTypeCode	GST

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7. Implementation Considerations

Not Applicable

8. Testing

Not Applicable

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

9. Appendices

Not Applicable

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10. Adherence to Architectural Principles

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
2.1	The GS1 Architecture shall be fully aligned to GS1 Strategy, Vision, & Mission	The solution in the BSD is aligned with the business problem as defined in the CR and BCD.	☒	
2.2	The GS1 Architecture shall leverage the use of GS1 Keys	The solution maintains the GS1 keys as the primary, mandatory identifiers.	☒	
2.3	The GS1 Architecture shall leverage the common GS1 Global Data Dictionary (GDD)	The solution does not alter the formats of primary identifiers and complies with data elements as defined in the Global Data Dictionary.	☒	
2.4	The GS1 Architecture shall be forward-looking, provide for migration strategies and backward compatibility, and support adaptable and flexible solutions	The solution is backwards compatible according to the stated scope in the document. The solution takes into consideration the potential impact of the standard, especially with respect to implementation and maintenance. Any potential known impact is documented.	☒	
2.5	The GS1 Architecture shall support business processes tied to trading partner needs, relevant, and committed to demonstrable business value	All business requirements contained in the related BRAD come from trading partners or representatives with a genuine intention to implement the standards when developed. All requirements are driven by the business needs of the trading partners.	☒	
2.6	The GS1 Architecture shall enable security where appropriate	Security solutions are included where appropriate.	☒	
2.7	The GS1 Architecture shall be consistent	The solution does not violate consistency of the data architecture within each layer and between each layer of the GS1 System. For example, requirements do not alter a key used across GS1 standards or alter a reusable object without applying this change across related standards.	☒	
2.8	The GS1 Architecture shall be royalty-free	The solution supports this principle where possible. The solution may include the use of other standards organizations that may not be royalty free.	☒	

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#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
3.1	The GS1 Architecture should promote the achievement of the best overall value at the lowest total cost of ownership	The solution promotes the achievement of the best overall value at the lowest total cost of ownership.	☒	
3.2	The GS1 Architecture should promote scalability	The solution takes into consideration the potential scalability of the standard. Any potential known impact to scalability is documented.	☒	`
3.3	The GS1 Architecture should promote seamless integration	The BSD promotes seamless integration with other GS1 Standards if in scope.	☒	
3.4	The GS1 Architecture should promote interoperability and compliance	The solution takes into consideration data and process interoperability. For example, any shared objects between interoperable messages must remain consistent. Any potential known impact to interoperability is documented.	☒	
3.5	The GS1 Architecture should promote simplicity and standard interfaces	The solution does not threaten the standardisation of the interfaces of the GS1 System. Interfaces are not limited to references to technology but also include such ideas as business interfaces and process interfaces.	☒	
3.6	The GS1 Architecture should avoid duplication	The solution does not create duplications with existing GS1 components. If there are potential duplications, these are documented with a stated rationale for the duplication.	☒	
3.7	The GS1 Architecture should promote technology independence and a layered approach	The solution does not impose implicit or explicit restrictions of any technology.	☒	
3.8	The GS1 Architecture should promote global cross-sector definitions and leverage the best of global and the best of local	The solution takes into account a global perspective.	☒	
3.9	The GS1 Architecture shall leverage a common strategy for extensibility	This solution uses consistent and common, extensibility approaches, methodologies and technology where available and applicable.	☒	

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#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
4.1	In support of a common GS1 Architecture, GS1 shall leverage work of other standards bodies wherever possible.	This solution utilizes works of other standards bodies wherever possible.	☒	
4.2	In support of a common GS1 Architecture, GS1 shall strive to eliminate exceptions and variances wherever possible	The solution strives to eliminate exceptions and variances wherever possible and does not create new variances.	☒	

11. Summary of Changes

Change	BSD Version	Associated CR Number
Updated for Major Release 3.0, BMS version 3.0.0: Updated to reflect changes in modelling methodology.	3.0.0	N/A

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