



Business Message Standard (BMS) Debit Credit Advice

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22-Oct-2007	Andy Kim, GS1 Australia	07-000359
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19-Nov-2006	Andy Kim, GS1 Australia	06-000303
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Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
Debit Credit Advice Enhancements	11-Jan-2007	Version 0.0.1
Common Library	Dec 2008	BMS Release Version 2.5.0
BRD Debit or Credit Advice	17-Apr-2004	Version 1.1

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		n/a

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1. Business Domain View

1.1. Problem Statement / Business Need

As part of the trade of goods and services process, situations may arise when adjustments are necessary to reflect the actual flow, price, receipt or other agreements for the use of goods and services between trading parties. Situations such as (but not limited to):

- goods being received damaged
- incorrect quantity of goods are received
- retroactive volume discounts

Result in the need for one party to notify the other trading party that an adjustment is being applied, resulting in a change to the monetary amount owed/due between the parties.

The goal of this 'Debit Credit Advice' use case is to provide an electronic advice to a trading partner that a monetary adjustment - debit or credit amount value - is being applied to the purchase of goods or services.

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]	Debit Credit Advice Enhancements	Version 0.0.1
[Ref2]	BMS eCom Domain Common Library	BMS Release Version 3.0.0
[Ref3]	BMS Shared Common Library	BMS Release Version 3.0.0
[Ref4]	BRD Debit or Credit Advice	BRD Version 1.1
[Ref 5/ 8957]	BRAD Debit or Credit Advice Enhancement	BRAD Version 0.0.1

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

Function	Name	Company / organisation
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Member	Bradley, Ardetha	Georgia Pacific
Member	Burke, Miriam	Procter & Gamble Co.
Member	Chatagnier, Isabelle	GS1 France
Member	Childs, Justin	GS1 Global Office
Member	Chresta, Richard	GS1 Switzerland
Member	Cox, Marc	Philips Electronics N.V.
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Member	Laur, Rita	GS1 Canada
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Member	Lenman, Mia	GS1 Sweden
Member	Lockhead, Sean	GS1 Global Office

Function	Name	Company / organisation
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Member	Martinko, Michal	Hewlett-Packard
Member	McLeod, Ed	Procter & Gamble Co.
Member	Melcher, Jeff	The Exchange (AAFES)
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Member	Mugnier, Norbert	Dilicom
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Member	Picoito, Joao	GS1 Portugal
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Member	Post, Valerie	Link Snacks Inc, Jack Links Beef Jerky
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Member	Pujol, Xavier	GS1 Spain
Member	Repetto, Mirko	GS1 Italy
Member	Robba, Steven	SA2 Worldsynchron GmbH
Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
Member	Ryu, John	GS1 Global Office
Member	Schmidt, Tom Eric	August Storck KG
Member	Schneider, Christian	GS1 Switzerland
Member	Sedano Acosta, Federico	GS1 Argentina
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Member	Sharratt, Jon	Target Corporation
Member	Shimazaki, Ayako	GS1 Japan
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Member	Trelle, Ute	SA2 Worldsynchron GmbH
Member	Voorspuij, Jaco	DHL
Member	Welch, Shan	GS1 UK
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Function	Name	Company / organisation
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1.5.2. Design Team Members

Function	Name	Organisation
Modeller	Eric Kauz / Coen Janssen / Mark van Eeghem	GS1 Global Office
XML Technical Designer	Dipan Anarkat	GS1 Global Office
Peer Reviewer	John Ryu / 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. Additional Technical Requirements Analysis

Not Applicable

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

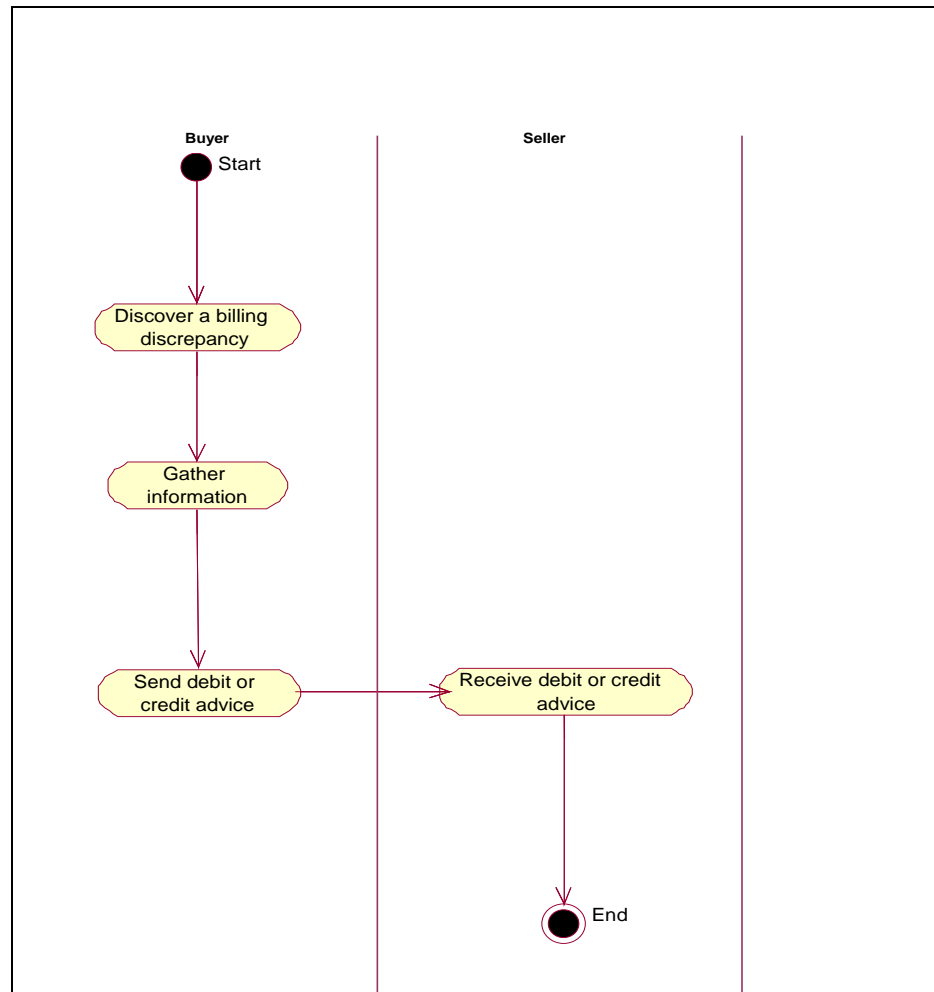
Not Applicable

4.2. Use Case Description

Use Case ID	UC-1												
Use Case Name	Initiates debit or credit advice												
Use Case Description	Buyer or Seller discovers a discrepancy or needs to advise a trading party regarding one or more adjustments related to item(s) or service(s) on previously traded information.												
Actors (Goal)	The two general actors in the 'Debit Or Credit Advice' process are the Buyer and the Seller. Depending on the specific nature of the relationship, other players may have a role, such as a third party. A defined third party for this message may be a Carrier, who may have a relationship with the Buyer or Seller, or both.												
Performance Goals	None												
Preconditions	The Buyer and Seller have an established relationship, and have entered into an agreement for the trade of goods or services, which have defined terms and conditions for the trade.												
Post conditions	None												
Scenario	<p>Begins when...</p> <p>The Buyer or Seller discovers a discrepancy or needs to advise the other trading party regarding adjustments related to item(s) or service(s) on previously traded information.</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer or Seller</td><td>Discovers a discrepancy on previously traded information regarding goods or services.</td></tr><tr><td>2</td><td>Buyer or Seller</td><td>Gathers the information necessary to properly give information detail to trading partner.</td></tr><tr><td>3</td><td>Buyer or Seller</td><td>Issues appropriate Debit or Credit Advice document.</td></tr></table> <p>Ends when... the Buyer or Seller issues a Debit Or Credit Advice to rectify previous transactional information, which is received by the affected party.</p>	Step #	Actor	Activity Step	1	Buyer or Seller	Discovers a discrepancy on previously traded information regarding goods or services.	2	Buyer or Seller	Gathers the information necessary to properly give information detail to trading partner.	3	Buyer or Seller	Issues appropriate Debit or Credit Advice document.
Step #	Actor	Activity Step											
1	Buyer or Seller	Discovers a discrepancy on previously traded information regarding goods or services.											
2	Buyer or Seller	Gathers the information necessary to properly give information detail to trading partner.											
3	Buyer or Seller	Issues appropriate Debit or Credit Advice document.											
Alternative Scenario	No Alternative Scenario												
Related Requirements	No Related Requirements												
Related Rules	No Related Rules												

4.3. Business Transaction Activity Diagram

Figure 4-3 Debit Credit Advice Activity Diagram



4.4. Business Transaction Sequence Diagram

Not Applicable

5. Information Model (Including GDD Report)

5.1. GDD Reports

5.1.1. GDD Report: Debit Credit Advice

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
DebitCreditAdvice				The goal of the 'Debit Credit Advice' is to provide an electronic advice to a trading partner that a monetary adjustment - debit or credit amount value - is being applied to the purchase of goods or services, resulting in a change to the monetary amount owed/due between the parties..	
Association	buyer	TransactionalParty	0..1	Identifies the party to which products or services are sold.	
Association	seller	TransactionalParty	0..1	Identifies the party which sells products or services to a buyer.	
Association		DebitCreditAdviceLineItem	1..*	Provides the Debit Credit Advice Line Item details.	
Association	debitCreditAdviceIdentification	EntityIdentification	1..1	A unique identifier for the debit credit advice message.	
Association	billTo	TransactionalParty	0..1	Identifies the party which receives the invoice for the sold goods / services.	
Association	carrier	TransactionalParty	0..1	Unique identifier for the company which physically transports goods from one place to another.	
Association	ultimateConsignee	TransactionalParty	0..1	Identifies the final destination location to which goods are shipped.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association	shipTo	TransactionalParty	0..1	Identifies the destination location to which goods are shipped.	
Generalization		Document		Used to specify basic information about the content of the message including version number, creation date and time.	
Association	shipFrom	TransactionalParty	0..1	Identifies the origin location from which goods are shipped.	
Attribute	debitCreditIndicatorCode	DebitCreditEnumeration	1..1	Indicator Value indicates whether amount is a debit or credit.	
Attribute	totalAmount	Amount	1..1	Monetary amount of debit or credit.	
Attribute	additionalDebitCreditInstruction	Description1000	0..1	Comments related to message header level.This field should only be used in exception circumstances if the information cannot be codified. Examples of free text field:Faulty products taken by Sales Rep /Items disposed of, not returned /Claimed in error.	

5.1.2. GDD Report: Debit Credit Advice Line Item Detail

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
<u>DebitCreditAdviceLineItemDetail</u>				Allows a sender to provide information of multiple adjustments to a line item from the same referenced document.	
Association		TradeItemIdentification	1..1	Identification of the trade item to which the debit credit advice line detail information applies.	
Attribute	alignedPrice	Amount	0..1	Price expressed as a monetary value. Through alignment between parties, this price has been previously agreed to.	
Attribute	invoicedPrice	Amount	0..1	Monetary value of the item or service noted on the invoice.	
Attribute	quantity	Quantity	0..1	Number of units of a product or service.	
<u>DebitCreditAdviceLineItem</u>				Provides the Debit Credit Advice Line Item details.	
Association		DebitCreditAdviceLineItemDetail	0..*	Allows a sender to provide information of multiple adjustments to a line item from the same referenced document.	
Association		TransactionalReference	0..*		
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Debit Credit Advice Line Item.	
Attribute	adjustmentAmount	Amount	1..1	Monetary amount of debit or credit adjustment.	
Attribute	debitCreditIndicatorCode	DebitCreditEnumeration	1..1	Indicator Value indicates whether the adjustment amount is a debit or credit.	
Attribute	financialAdjustmentReasonCode	FinancialAdjustmentReasonCode	1..1	Code specifying the reason for the financial adjustment.	

Content	Attribute / Role	Datatype /Secondary class	Multipli city	Definition	Requirements
Attribute	additionalDebitCreditLineInstruction	Description1000	0..1	Comments related to the line level.This field should only be used in exception circumstances if the information cannot be codified. Examples :Aerosol doesn't work /Seeds have passed expiry date /Return due to customer dissatisfaction.	

5.2. Class Diagram

Figure 5-1 Class Diagram: Debit Credit Advice

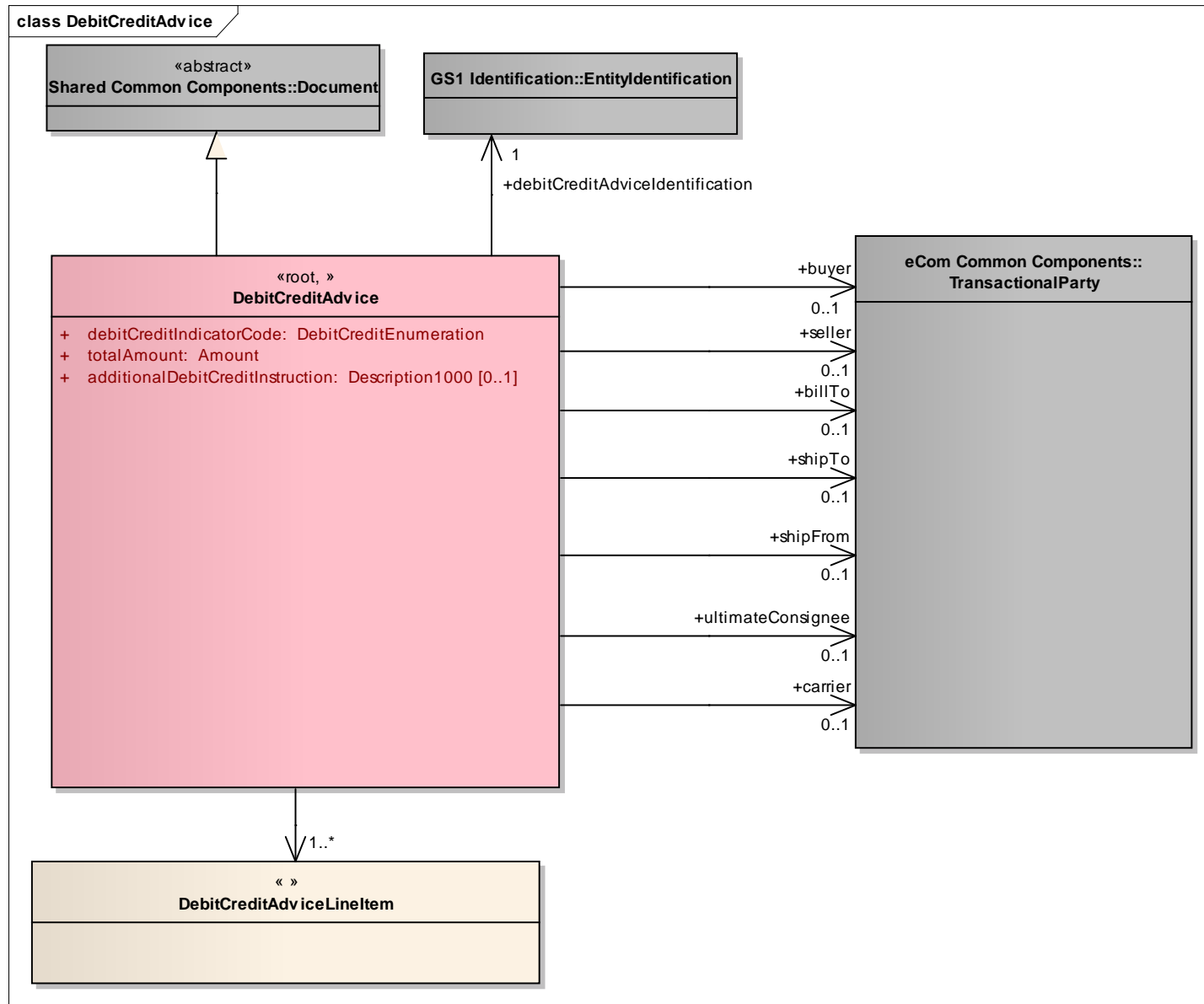
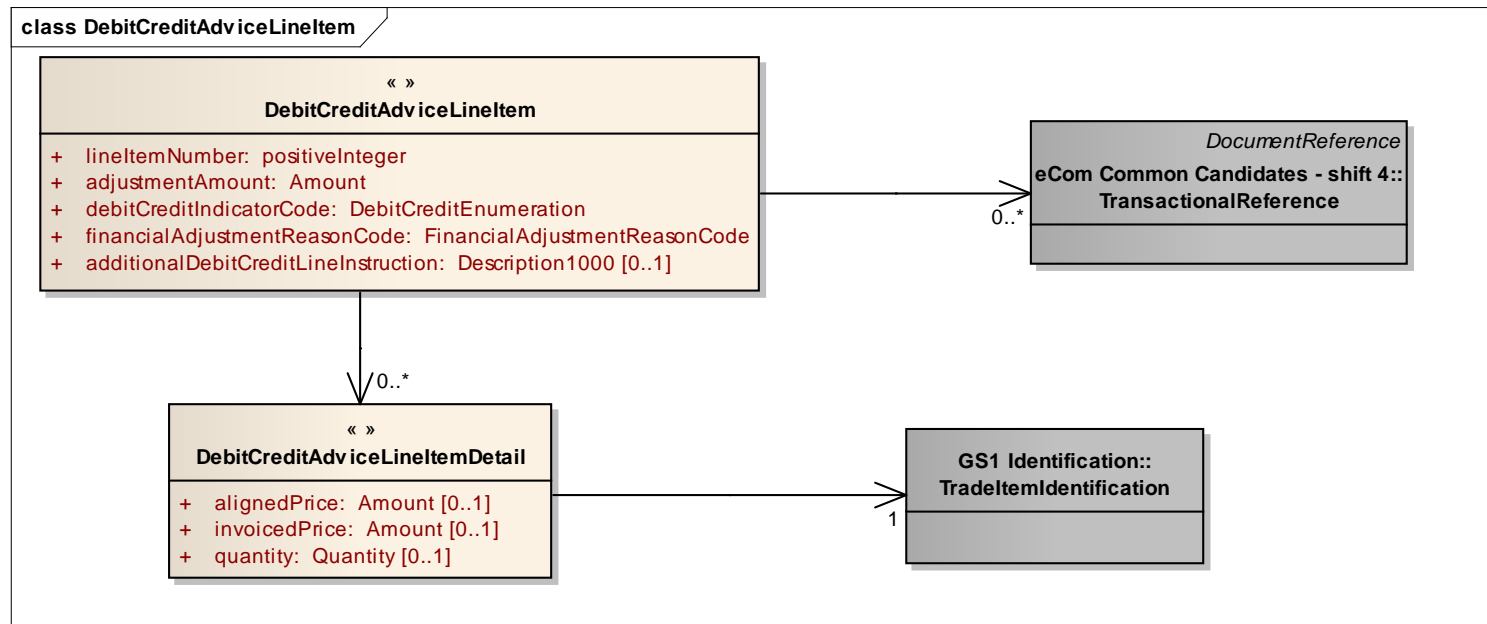


Figure 5-2 Class Diagram: Debit Credit Advice Line Item Detail



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.

5.3. Code Lists & Enumerations



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
DebitCreditAdviceLineItem	FinancialAdjustmentReasonCode	eCom Domain Common Library Business Message Standard (BMS)
	DebitCreditEnumeration	eCom Domain Common Library Business Message Standard (BMS)

6. Business Document Example

- The following is an example of an invoice message. The message is sent out on April 5th at 11 AM. The message is identified with the unique identifier CR03001 and is initiated by the buyer.
- The credit advice is sent by the buyer (9377771021131) to the seller (9377771056465).
- In this example, it is a credit advice for 3000.00. The Buyer advises that the goods have already been taken by a sellers Sales Rep, so an adjustment for credit for the buyer for 3000.00 is required
- The goods are to be shipped to
 - Brian Smith
 - 12 Gembrook Road
 - Melbourne Australia
- Contact information
 - Material Planning
 - Phone: 609.275.7575

7. Implementation Considerations

Not Applicable

8. Testing

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

Debit Credit Advice	
- debitCreditIndicatorCode	CREDIT
- totalAmount	3000 AUD
- additionalDebitCreditInstruction	Faulty products taken by Sales Rep
- creationDateTime	2005-04-05T11:00:00
- documentStatusCode	ORIGINAL
Entity Identification (+debitCreditAdviceIdentification)	
- entityIdentification	CR03001
PartyIdentification (+contentOwner)	
- gln	9377771021131
TransactionalParty (+buyer)	
- gln	9377771021131
TransactionalParty (+seller)	
- gln	9377771056465
TransactionalParty (+shipTo)	
Address	
city	Melbourne
countryCode	AU
languageOfThePartyCode	EN
name	Brian Smith
state	Victoria
streetAddressOne	12 Gembrook Road
Contact	
- departmentName	Material Planning
CommunicationChannel	
communicationChannelCode	TELEPHONE
communicationValue	6092757575
DebitCreditAdviceLineItem	
lineItemNumber	1
adjustmentAmount	3000.00 AUD
debitCreditIndicatorCode	CREDIT
financialAdjustmentReasonCode	2
additionalDebitCreditLineInstruction	Have passed expiry date
TransactionalReference	
entityIdentification	DEB1111
creationDate	2005-04-05T10:00:00
transactionalReferenceTypeCode	DL

DebitCreditAdviceLineItemDetail	
quantity	1000 PCS
TradeItemIdentification	
gtin	09377880000125

9. Appendices

Not Applicable

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.	<input checked="" type="checkbox"/>	
2.2	The GS1 Architecture shall leverage the use of GS1 Keys	The solution maintains the GS1 keys as the primary, mandatory identifiers.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
2.6	The GS1 Architecture shall enable security where appropriate	Security solutions are included where appropriate.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	

#	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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
3.3	The GS1 Architecture should promote seamless integration	The BSD promotes seamless integration with other GS1 Standards if in scope.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	
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.	<input checked="" type="checkbox"/>	

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
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.	<input checked="" type="checkbox"/>	

11. Summary of Changes

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