



# **Purchase Conditions**

## **Business Message Standard (BMS)**

*Release 3.1*

*1-May-2013, Issue 1*

## Document Summary

Document Item	Current Value
Document Title	Purchase Conditions - Business Message Standard (BMS)
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Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
16 – Jul - 2009	Esther Peelen, GS1 Netherlands	09-000195
20 – Aug – 2008	John Ryu, GS1	08-000209
26 – Feb- 2008	Eric Maree, Accenture	08-000033
25 – Jun -2007	Eric Maree, Accenture	07-000244
11 – May -2008	GS1	04-000211

## Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
BRAD Purchase Conditions	20070731	Version 0.0.1
BRAD Common Library		BMS Release Version 2.5.0
BRAD Upstream Standards- Purchase Conditions	20050531	Version 0.0.3
BRAD for Current Requirements Queue (Major Release 3)	20101123	Issue 0.2.0

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
6- Jan-2012	BMS 3.0 1.0.0	Coen Janssen	Publication of BMS 3.0	■ Noted in summary of changes
1-May-2013	BMS 3.1 issue 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

Purchase Conditions express the official commitment between buyer and seller that certain quantities are to be delivered over a given period and at the stated price. In doing so it sets the contractual conditions for the ordering and delivering of the goods and so details specific terms and conditions that apply for a given period.

The Purchase Conditions does not intend to contain the totality of the contractual information, but to provide the relevant data in order to be able to align key conditions in an automated way.

The Purchase Conditions message supports multiple scenarios:

- Fixed quantity and fixed period
- Fixed quantity and variable period
- Variable quantity and fixed period

## 1.2. Objective

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

- Purchase Conditions

## 1.3. Audience

The audience for this document is the global business community and the senders/receivers of conditions.

## 1.4. References

Reference Number	Reference Name	Description
1	BRAD Purchase Conditions	The motioned BRAD to address CR 07-000244.
2	BMS eCom Common Library 3.1	The documented design of components that are reused in multiple messages across the eCom domain.
3	BMS Shared Common Library 3.1	The documented design of components that are reused across the eCom domain and GDSN.
4	BRAD Upstream Standards – Purchase Conditions 0.0.3	The BRAD based on Upstream Standards.
5	Requirements Queue CR 7-244 and 8-33	The Approved business requirements added into version 2.5.0
6	BRAD for Current Requirements Queue (Major Release 3)	The approved business requirements added into major release 3.0.0

## 1.5. Acknowledgements

### 1.5.1. Work Group

Function	Name	Company / organisation
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Co-chair	Schmidt, Tom Eric	August Storck KG
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Member	Canada, ON	M3B 3L1
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Member	Strand, Roman	GS1 Germany
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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

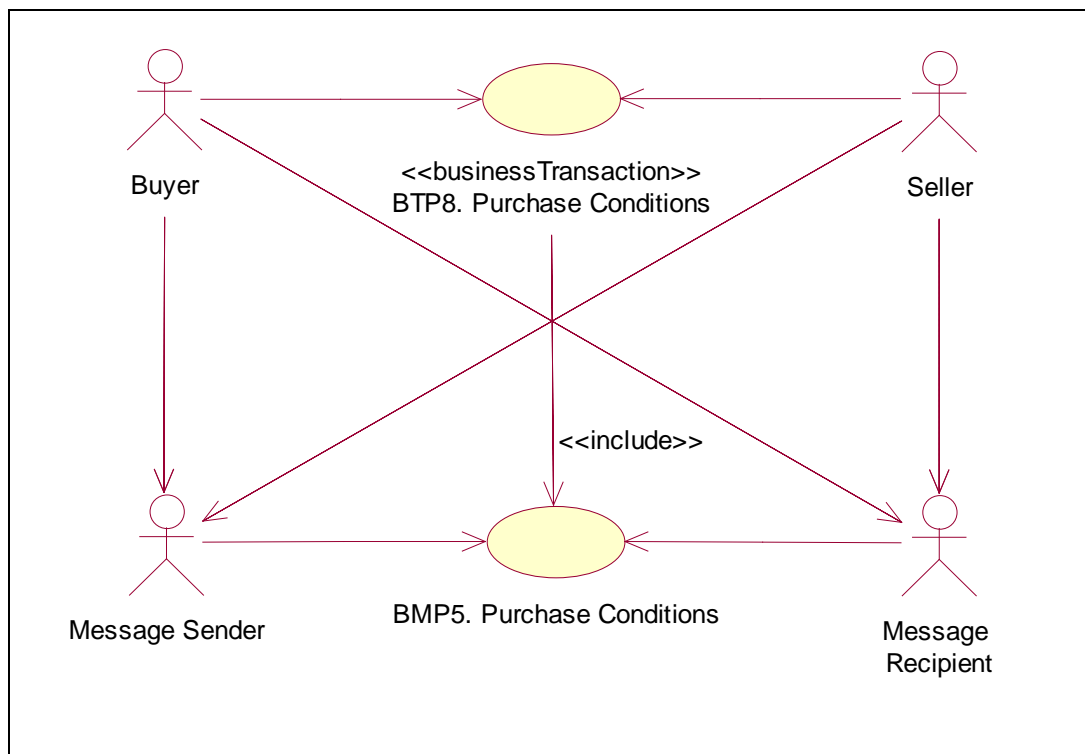
## 2. Business Context

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

## 3. Business Transaction View

### 3.1. Business Transaction – Purchase Conditions

#### Use Case Diagram



#### Use Case Description

Use Case ID	BTP8
Use Case Name	Purchase Conditions
Use Case Description	The Purchase Conditions sets the contractual conditions for the ordering and delivering of the goods and so details specific terms and conditions that apply for a given period. While both parties need to agree on Purchase Conditions data, it is understood that only one party, i.e. the buyer or seller, will send the Purchase Conditions message and that the information flow will be in one direction only in



	order to ensure alignment.											
Actors (Goal)	Buyer: to align Purchase Conditions with the seller. Seller: to align Purchase Conditions with the buyer.											
Performance Goals	Not Applicable											
Preconditions	Integration agreement is in place Item data are aligned											
Post conditions	Purchase conditions are communicated											
Scenario	<b>Begins when:</b> The buyer generates the purchase conditions message <b>Continues with:</b> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1.</td><td>Buyer</td><td>Sends Purchase Conditions message to the Seller.</td></tr><tr><td>2.</td><td>Seller</td><td>Receives Purchase Conditions Message</td></tr></table> <b>Ends when:</b> the seller has received the purchase conditions message			Step #	Actor	Activity Step	1.	Buyer	Sends Purchase Conditions message to the Seller.	2.	Seller	Receives Purchase Conditions Message
Step #	Actor	Activity Step										
1.	Buyer	Sends Purchase Conditions message to the Seller.										
2.	Seller	Receives Purchase Conditions Message										
Alternative Scenario	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1.</td><td>Seller</td><td>Sends Purchase Conditions message to the Buyer.</td></tr><tr><td>2.</td><td>Buyer</td><td>Receives Purchase Conditions Message</td></tr></table>			Step #	Actor	Activity Step	1.	Seller	Sends Purchase Conditions message to the Buyer.	2.	Buyer	Receives Purchase Conditions Message
Step #	Actor	Activity Step										
1.	Seller	Sends Purchase Conditions message to the Buyer.										
2.	Buyer	Receives Purchase Conditions Message										
Related Requirements	Not Applicable											
Related Rules	Not Applicable											

### Activity Diagram(s)

Not Applicable

### Sequence Diagram(s)

Not Applicable

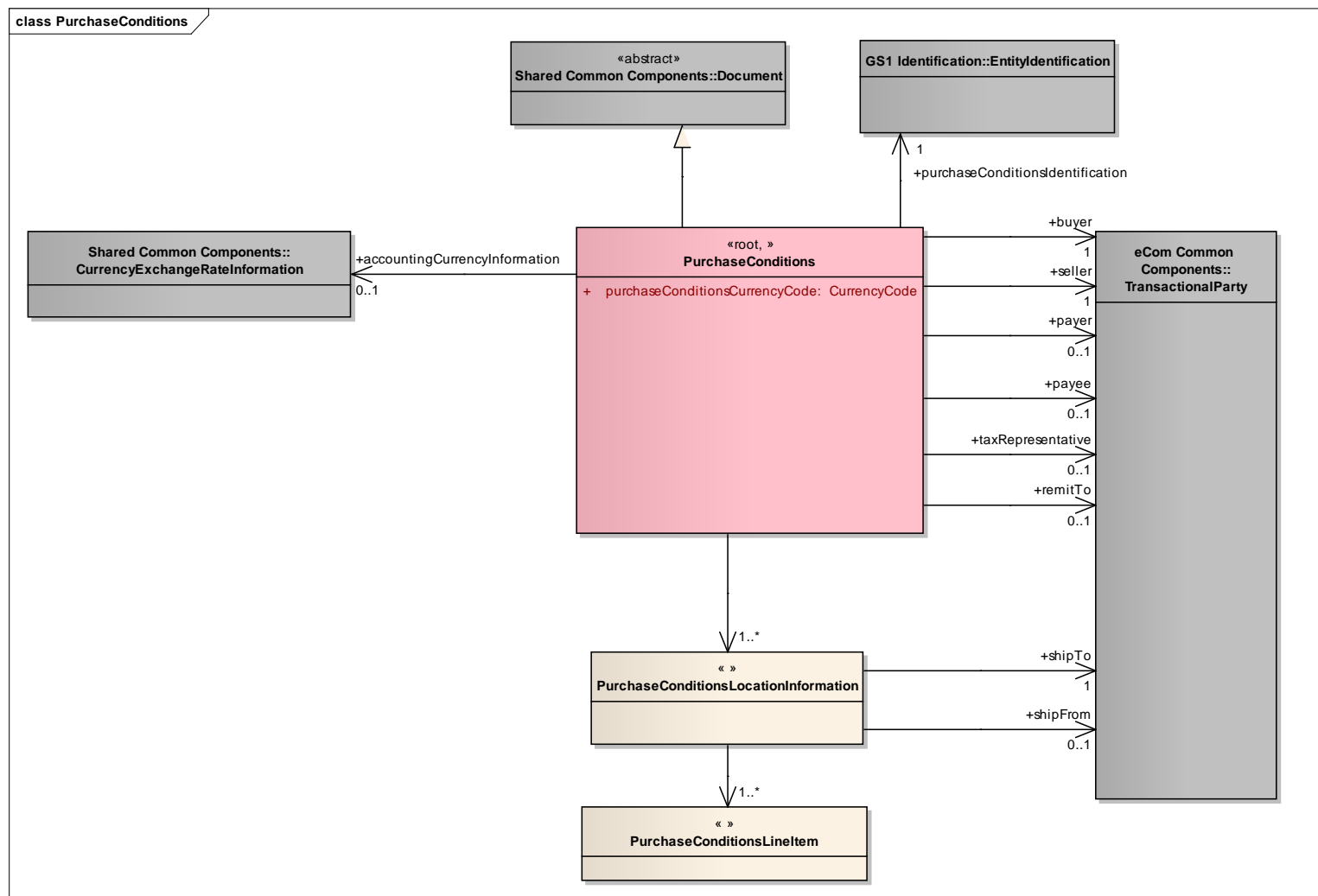
## 4. Business Information View



**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. Purchase Conditions

### Class Diagram



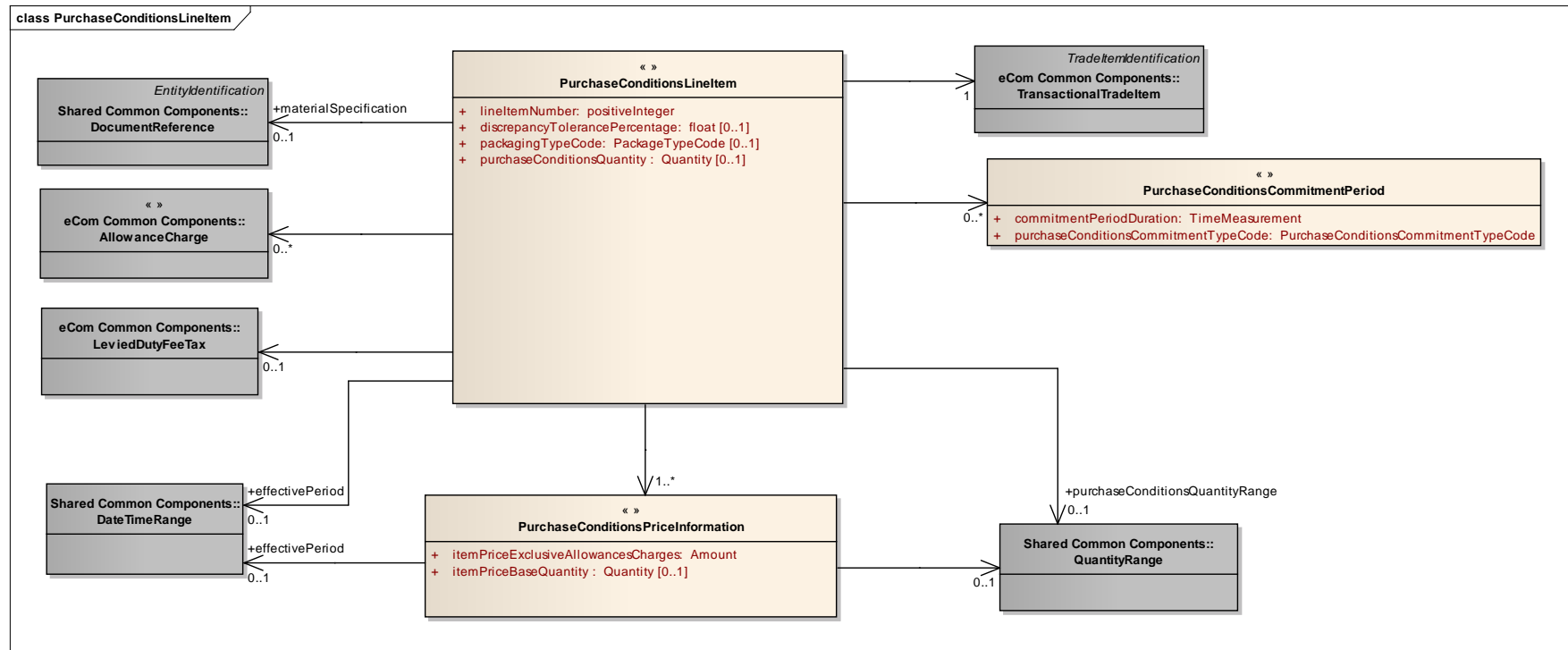
### GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Require ments
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Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Require ments
PurchaseConditions				The Purchase Conditions document provides the ability to specify commercial conditions that will apply to trade items/services shipped to and from multiple locations using one business message.	
Association	taxRepresentative	TransactionalParty	0..1	The party who is responsible for declaring the Value Added Tax (VAT) on the sale of goods or services.	
Association	seller	TransactionalParty	1..1	Identifies the party which sells products or services to a buyer.	
Association	payer	TransactionalParty	0..1	Party initiating payment.	
Association		PurchaseCondition sLocationInformati on	1..*	Provides the location information for the Purchase Conditions.	
Association	accountingCurren cyInformation	CurrencyExchange RateInformation	0..1	Contains information about the currency and exchange rate that need to be applied during the invoicing process, such as the calculation of taxes.	
Association	remitTo	TransactionalParty	0..1	The party (account owner) that receives a payment when such party is not the same as the seller.	
Association	buyer	TransactionalParty	1..1	Identifies the party to which the products or services are sold.	
Association	payee	TransactionalParty	0..1	Identifies the credit party when other than the beneficiary.	
Association	purchaseCondi tionsIdentification	EntityIdentification	1..1	The unique identification of the Purchase Conditions document.	
Generalization		Document		Provides the document detail information.	
Attribute	purchaseCondi tionsCurrencyCod e	CurrencyCode	1..1	The currency in which all amounts in the document are stated.	
PurchaseConditionsLocati onInformation				Specifies a combination of one ship from and one ship to location to which the underlying purchase conditions apply.	
Association	shipFrom	TransactionalParty	0..1	The Ship From location to which the purchase conditions apply.	
Association		PurchaseCondition sLineItem	1..*	Specifies the commercial conditions for a specific trade item at the specified ship to and ship from location.	
Association	shipTo	TransactionalParty	1..1	The Ship To location to which the purchase conditions apply.	

## 4.2. Purchase Conditions Line Item

### Class Diagram



### GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PurchaseConditionsCommitmentPeriod				Specifies the length and type of the commitment that will apply when communicating about goods requirements for the specified trade item. Example: For trade item A the first 5 days of the goods requirements planning are always a hard commitment.	
Attribute	commitmentPeriodDuration	TimeMeasurement	1..1	Duration of the period in which the goods are committed to be produced or delivered, expressed in the number of time buckets. For example: 20 days.	

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Require ments
Attribute	purchaseConditions CommitmentTypeCo de	PurchaseConditions CommitmentTypeCo de	1..1	Indicates whether the commitment refers to goods to be produced or goods to be delivered.	
PurchaseConditionsLineI tem				Specifies the commercial conditions for a specific trade item.	
Association		PurchaseConditions PriceInformation	1..*	Specifies the agreed price(s) that will apply to the trade item to be purchased.	
Association		TransactionalTradeI tem	1..1	Identifies the trade item to which the purchase conditions apply.	
Association		AllowanceCharge	0..*	Identifies any allowances and or charges to be included in the purchase conditions.	
Association		PurchaseConditions CommitmentPeriod	0..*	The hard production or delivery commitment that have been agreed by both parties for the trade item to be purchased.	
Association	materialSpecificatio n	DocumentReference	0..1	References any additional product specifications to be included in the purchase conditions.	
Association	effectivePeriod	DateTimeRange	0..1	The period during which the purchase conditions apply.	
Association	purchaseConditions QuantityRange	QuantityRange	0..1	The purchase quantity range (cumulative) that has been agreed upon.	
Association		LeviedDutyFeeTax	0..1	Specifies the taxes that will apply to the goods to be purchased.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Purchase Conditions Line Item.	
Attribute	discrepancyToleran cePercentage	float	0..1	Percentage that specifies the allowed margin (positive or negative, relative to the specified purchase quantity) for which the purchase conditions will still apply.	
Attribute	packagingTypeCode	PackageTypeCode	0..1	Specifies the type of package in which the purchase goods are to be delivered.	
Attribute	purchaseConditions Quantity	Quantity	0..1	The purchase quantity (cumulative) that has been agreed upon.	
PurchaseConditionsPric eInformation				Specifies the agreed price of a trade item and optionally the quantity range for which the price is valid.	
Association		QuantityRange	0..1	Defines the upper and lower purchase quantity between which the specified price is valid.	
Association	effectivePeriod	DateTimeRange	0..1	Provides the time frame for the price in the purchase condition.	

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition	Require ments
Attribute	itemPriceBaseQuantity	Quantity	0..1	Specifies the quantity in which the price is expressed. For example: item price = \$10 per 1000 units.	
Attribute	itemPriceExclusiveAllowancesCharges	Amount	1..1	Specifies the agreed price.	

### 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

## 5. Business Message Example

The following is an example of a purchase conditions message. The message is sent out on February 9<sup>th</sup> 2011 at 11 AM. The message is identified with the unique identifier 2011001. The content owner is the sending party, in this case the manufacturer (Buyer 8712345678913).

The gross requirements are sent by the manufacturer (Buyer 8712345678913) to the material supplier (Seller 8812345678903).

The purchase conditions are for two delivery sites, X (Ship To 8712345670009) and Y (Ship To 8712345678951). There is only one shipping site, Z (Ship From 8812345678950).

For locations X and Z the following conditions have been agreed upon:

Trade Item A (GTIN 08712345678906):

- Agreement applies to 100.000 units
- Start date of agreement is February 18<sup>th</sup> 2011
- Discrepancy margin is 5%
- Committed period of delivery: a period of 5 days.
- Price is € 12,-

For locations Y and Z the following conditions have been agreed upon:

Trade Item A (GTIN 08712345678906):

- Agreement applies to 25.000 to 100.000 units
- Start date of agreement is February 18<sup>th</sup> 2011
- Price is € 0,135 for 0 to 50.000 units, € 0,125 for 50.000 units or more. The price will be expressed per 100 units.

### Message:

PurchaseConditions	
purchaseConditionsCurrencyCode	EUR
Document	
creationDateTime	2011-02-09T11:00:00
documentStatus	ORIGINAL
EntityIdentification (+PurchaseConditionsIdentification)	
entityIdentification	2011001
PartyIdentification (+contentOwner)	
gln	8712345678913
TransactionalParty (+seller)	
gln	8812345678903
TransactionalParty (+buyer)	
gln	8712345678913



<b>PurchaseConditions</b>	
<b>PurchaseConditionsLocationInformation</b>	
<b>TransactionalParty (+shipTo)</b>	
gln	8712345670009
<b>TransactionalParty (+shipFrom)</b>	
gln	8812345678950
<b>PurchaseConditionsLineItem</b>	
lineItemNumber	1
discrepancyTolerancePercentage	5
purchaseConditionsQuantity	100000
<b>DateTimeRange (+effectivePeriod)</b>	
beginDate	2011-02-18
<b>TransactionalTradeItem</b>	
gtin	08712345678906
<b>PurchaseConditionsPriceInformation</b>	
itemPriceExclusiveAllowancesCharges	12 EUR
<b>PurchaseConditionsCommitmentPeriod</b>	
commitmentPeriodDuration	5 DAYS
purchaseConditionsCommitmentTypeCode	DELIVERY
<b>PurchaseConditionsLocationInformation</b>	
<b>TransactionalParty (+shipTo)</b>	
gln	8712345678951
<b>PurchaseConditionsLineItem</b>	
lineItemNumber	2
<b>DateTimeRange (+effectivePeriod)</b>	
beginDate	2011-02-18
<b>TransactionalTradeItem</b>	
gtin	08712345678906
<b>PurchaseConditionsPriceInformation</b>	
itemPriceExclusiveAllowancesCharges	13,50 EUR
itemPriceBaseQuantity	100
<b>QuantityRange</b>	
minimumQuantity	0
maximumQuantity	50000
<b>PurchaseConditionsPriceInformation</b>	
itemPriceExclusiveAllowancesCharges	12,50 EUR
itemPriceBaseQuantity	100
<b>QuantityRange</b>	

PurchaseConditions	
minimumQuantity	50000
maximumQuantity	100000
<b>QuantityRange (+purchaseconditionsQuantityRange)</b>	
maximumQuantity	25000
minimumQuantity	100000

## 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 <ul style="list-style-type: none"><li>■ allowance charge codelist updated.</li><li>■ Remodelled to be in line with new MR3.0 modelling guidelines.</li><li>■ Updated GDD Reports and Class diagrams</li><li>■ Updated the Business example/test data sections</li><li>■ Added Architectural Principles section.</li></ul>	Issue 0.3.0	09-000195
For BMS Release 3.0.0 <ul style="list-style-type: none"><li>■ Added copyright R in GS1 logo</li><li>■ Removed year reference in footer copyright statement</li><li>■ Replaced section 10 with updated AG Principles</li></ul>	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.