



# Business Message Standard (BMS) Purchase Conditions

BMS Release: 3.0.0, BRG Name: eCom

*Issue 1.0.0, 6-Jan-2012*





## Document Summary

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## Change Request Reference

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	Model Build #
9-Jun-2011	1.0.0	Mark van Eeghem	Major Release 3.0.	<ul style="list-style-type: none"> <li>Noted in summary of changes</li> </ul>	Not Applicable
17-jun-2011	1.0.0	Coen Janssen	Issue resolution	<ul style="list-style-type: none"> <li>Changed attribute sequence in PurchaseConditionsPriceInformation</li> <li>Updated class diagram and GDD report of PurchaseConditionsLineItem to reflect data type rename of PackageTypeDescriptionCode into PackageTypeCode</li> </ul>	Not Applicable
18-Oct-2011	1.0.0	Coen Janssen	BMS Release 3.0 eBallot Approved	Status updated	Not Applicable
6- Jan-2012	1.0.0	John Ryu	Publication updates	Noted in summary of changes	Not Applicable

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# Table of Contents

<b>1. Business Domain View</b>	<b>5</b>
1.1. Problem Statement / Business Need	5
1.2. Objective	5
1.3. Audience	5
1.4. References	5
1.5. Acknowledgements	6
1.5.1. Work Group	6
1.5.2. Design Team Members	8
<b>2. Business Context</b>	<b>8</b>
<b>3. Additional Technical Requirements Analysis</b>	<b>8</b>
3.1. Technical Requirements	8
<b>4. Business Transaction View</b>	<b>8</b>
4.1. Business Transaction Use Case Diagram	8
4.2. Use Case Description	9
4.3. Business Transaction Activity Diagram(s)	10
4.4. Business Transaction Sequence Diagram(s)	10
<b>5. Information Model (Including GDD Reports)</b>	<b>11</b>
5.1. GDD Reports	11
5.1.1. GDD Report: Purchase Conditions	11
5.1.2. GDD Report: Purchase Conditions Commitment Period	12
5.1.3. GDD Report: Purchase Conditions Line Item	12
5.1.4. GDD Report: Purchase Conditions Location Information	13
5.1.5. GDD Report: Purchase Conditions Price Information	14
5.2. Class Diagram	15
5.2.1. Purchase Conditions	15
5.2.2. Purchase Conditions Line Item	16
5.3. Code Lists	16
<b>6. Business Document Example</b>	<b>17</b>
<b>7. Implementation Considerations</b>	<b>17</b>
<b>8. Testing</b>	<b>17</b>
8.1. Pass / Fail Criteria	17
8.2. Test Data	18
8.2.1. Purchase Conditions	18
<b>9. Appendices</b>	<b>19</b>
<b>10. Adherence to Architectural Principles</b>	<b>20</b>
<b>11. Summary of Changes</b>	<b>22</b>

# 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

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 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 Domain Common Library Release 3.0.0	The documented design of components that are reused in multiple messages across the eCom domain.
3	BMS Shared Common Library Release 3.0.0	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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Member	Childs, Justin	GS1 Global Office
Member	Chresta, Richard	GS1 Switzerland
Member	Cox, Marc	Philips Electronics N.V.
Member	De Flou, Nele	GS1 Belgium & Luxembourg
Member	Denyer, Troy	GS1 Australia
Member	Dicks, Arne	GS1 Germany
Member	Dodd, Marilyn	3M Company
Member	Duvinger, Karina	GS1 Sweden
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Member	Fedoseev, Sergey	GS1 Russia
Member	Foerderer, Klaus	GS1 Germany
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Member	Kille, Grant	SA2 Worldsync GmbH
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Member	Krid, Anne-Claire	GS1 France



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Member	Lenman, Mia	GS1 Sweden
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Member	Maniero, Ana Paula	GS1 Brasil
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Member	Martinko, Michal	Hewlett-Packard
Member	McLeod, Ed	Procter & Gamble Co.
Member	Melcher, Jeff	The Exchange (AAFES)
Member	Montes de Oca, Alejandra	GS1 Mexico
Member	Moritz, Marcus	GS1 Germany
Member	Mugnier, Norbert	Dilicom
Member	Narbaïts-Jauréguy, Corinne	GS1 France
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Member	Picoito, Joao	GS1 Portugal
Member	Plaksin, Leon	GS1 Australia
Member	Popper, Bret	Kraft Foods
Member	Post, Valerie	Link Snacks Inc, Jack Links Beef Jerky
Member	Pottier, Natascha	GS1 France
Member	Pujol, Xavier	GS1 Spain
Member	Repetto, Mirko	GS1 Italy
Member	Robba, Steven	SA2 Worldsync GmbH
Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
Member	Ryu, John	GS1 Global Office
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Member	Schneider, Christian	GS1 Switzerland
Member	Sedano Acosta, Federico	GS1 Argentina
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Member	Sharratt, Jon	Target Corporation
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Member	SION, Emilie	GS1 France
Member	Smith, Matthew	Bunnings Group Limited
Member	Sobrino, Gabriel	GS1 Netherlands
Member	Strand, Roman	GS1 Germany
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Member	Tomassi, Gina	PepsiCo, Inc.

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Member	Welch, Shan	GS1 UK
Member	Westerkamp, Jan	GS1 Netherlands
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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	Global
Product	All
Process	Plan
System Capabilities	GS1 Standard
Official Constraints	None

## 3. Additional Technical Requirements Analysis

Not Applicable

### 3.1. Technical Requirements

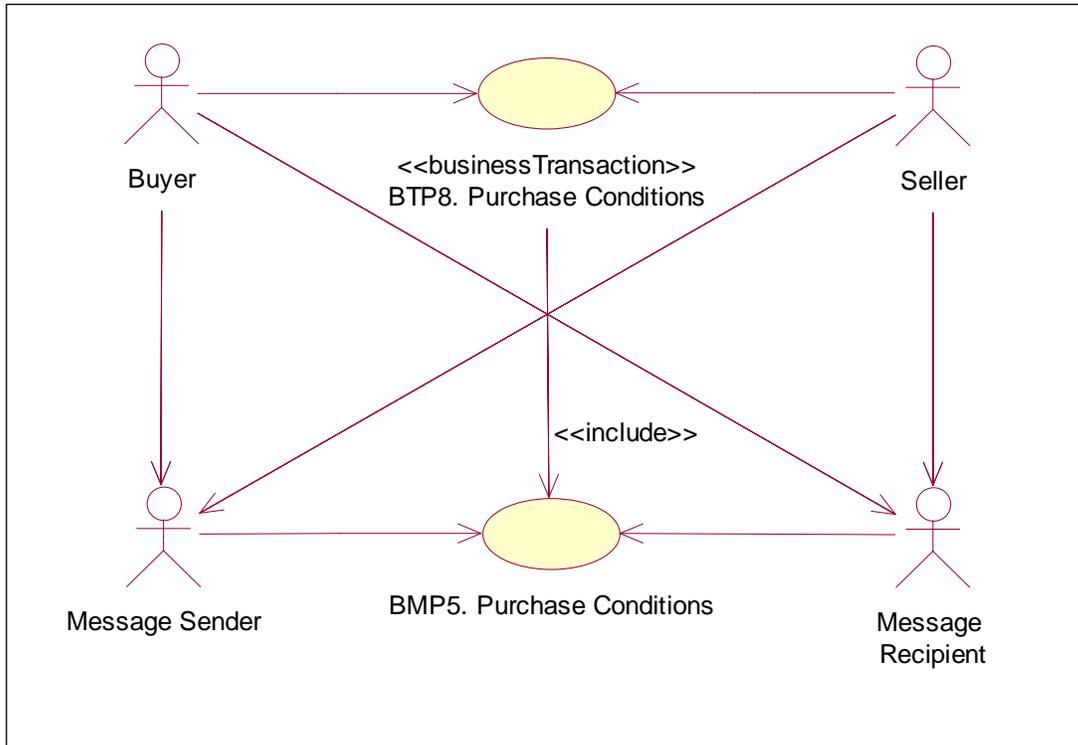
Number	Statement	Rationale
	Not Applicable	

## 4. Business Transaction View

### 4.1. Business Transaction Use Case Diagram

Figure 4-1 Purchase Conditions Use Case Diagram

## 4.2. Use Case Description



<b>Use Case ID</b>	BTP8							
<b>Use Case Name</b>	Purchase Conditions							
<b>Use Case Description</b>	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.							
<b>Actors (Goal)</b>	Buyer: to align Purchase Conditions with the seller. Seller: to align Purchase Conditions with the buyer.							
<b>Performance Goals</b>	Not Applicable							
<b>Preconditions</b>	Integration agreement is in place Item data are aligned							
<b>Post conditions</b>	Purchase conditions are communicated							
<b>Scenario</b>	<p><b>Begins when:</b> The buyer generates the purchase conditions message</p> <p><b>Continues with:</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Buyer</td> <td>Sends Purchase Conditions message to the Seller.</td> </tr> </tbody> </table>		Step #	Actor	Activity Step	1.	Buyer	Sends Purchase Conditions message to the Seller.
Step #	Actor	Activity Step						
1.	Buyer	Sends Purchase Conditions message to the Seller.						

	2.	Seller	Receives Purchase Conditions Message
	<b>Ends when:</b> the seller has received the purchase conditions message		
<b>Alternative Scenario</b>	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
	1.	Seller	Sends Purchase Conditions message to the Buyer.
	2.	Buyer	Receives Purchase Conditions Message
<b>Related Requirements</b>	Not Applicable		
<b>Related Rules</b>	Not Applicable		

### 4.3. Business Transaction Activity Diagram(s)

Not Applicable

### 4.4. Business Transaction Sequence Diagram(s)

Not Applicable

## 5. Information Model (Including GDD Reports)

### 5.1. GDD Reports

#### 5.1.1. GDD Report: Purchase Conditions

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
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		PurchaseConditionsLocationInformation	1..*	Provides the location information for the Purchase Conditions.	
Association	accountingCurrencyInformation	CurrencyExchangeRateInformation	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	purchaseConditionsIdentification	EntityIdentification	1..1	The unique identification of the Purchase Conditions document.	
Generalization		Document		Provides the document detail information.	
Attribute	purchaseConditionsCurrencyCode	CurrencyCode	1..1	The currency in which all amounts in the document are stated.	

### 5.1.2. GDD Report: Purchase Conditions Commitment Period

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PurchaseConditions CommitmentPeriod				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	commitmentP eriodDuration	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.	
Attribute	purchaseCon ditionsCommi tmentTypeCo de	PurchaseConditions CommitmentTypeCo de	1..1	Indicates whether the commitment refers to goods to be produced or goods to be delivered.	

### 5.1.3. GDD Report: Purchase Conditions Line Item

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PurchaseConditions LineItem				Specifies the commercial conditions for a specific trade item.	
Association		PurchaseConditionsPricel nformation	1..*	Specifies the agreed price(s) that will apply to the trade item to be purchased.	
Association		TransactionalTradelItem	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		PurchaseConditionsCom mitmentPeriod	0..*	The hard production or delivery commitment that have been agreed by both parties for the trade item to be purchased.	
Association	materialSpecific ation	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.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association	purchaseConditionsQuantityRange	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	discrepancyTolerancePercentage	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	purchaseConditionsQuantity	Quantity	0..1	The purchase quantity (cumulative) that has been agreed upon.	

#### 5.1.4. GDD Report: Purchase Conditions Location Information

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
PurchaseConditionsLocationInformation				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		PurchaseConditionsLineItem	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.	

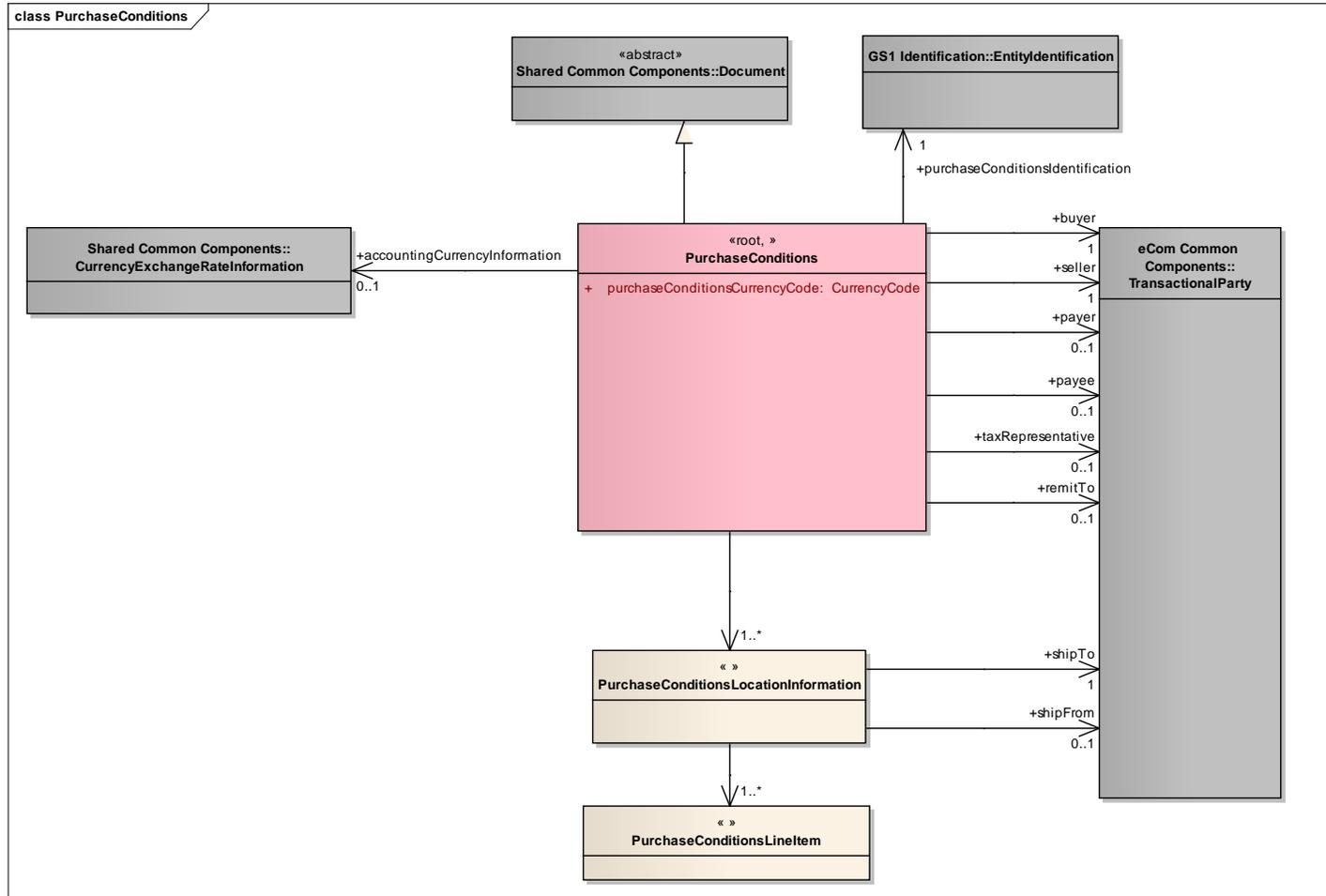
### 5.1.5. GDD Report: Purchase Conditions Price Information

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

## 5.2. Class Diagram

### 5.2.1. Purchase Conditions

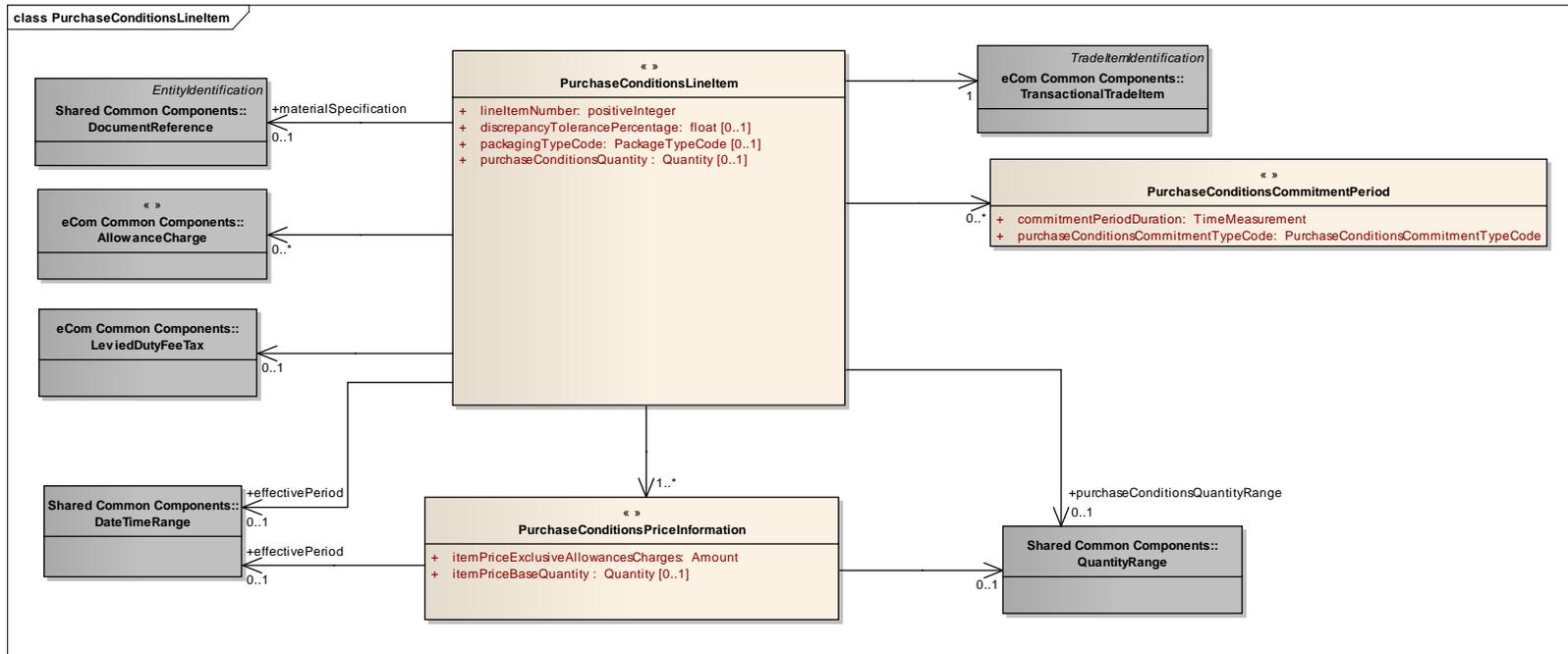
Figure 5-1 Class Diagram: Purchase Conditions



**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.

## 5.2.2. Purchase Conditions Line Item

Figure 5-2 Class Diagram: Purchase Conditions Line Item



- ✔ **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

- ✔ **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

## 6. Business Document 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.

## 7. Implementation Considerations

Not Applicable

## 8. Testing

Not Applicable

### 8.1. Pass / Fail Criteria

Not Applicable

## 8.2. Test Data

### 8.2.1. Purchase Conditions

<b>PurchaseConditions</b>	
purchaseConditionsCurrencyCode	EUR
<b>Document</b>	
creationDateTime	2011-02-09T11:00:00
documentStatus	ORIGINAL
<b>EntityIdentification (+PurchaseConditionsIdentification)</b>	
entityIdentification	2011001
<b>PartyIdentification (+contentOwner)</b>	
gln	8712345678913
<b>TransactionalParty (+seller)</b>	
gln	8812345678903
<b>TransactionalParty (+buyer)</b>	
gln	8712345678913
<b>PurchaseConditionsLocationInformation</b>	
<b>TransactionalParty (+shipTo)</b>	
gln	8712345670009
<b>TransactionalParty (+shipFrom)</b>	
gln	8812345678950
<b>PurchaseConditionsLinItem</b>	
linItemNumber	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>PurchaseConditionsLinItem</b>	

<b>PurchaseConditions</b>	
lineItemNumber	2
<b><i>DateTimeRange (+effectivePeriod)</i></b>	
beginDate	2011-02-18
<b><i>TransactionalTradeItem</i></b>	
gtin	08712345678906
<b><i>PurchaseConditionsPriceInformation</i></b>	
itemPriceExclusiveAllowancesCharges	13,50 EUR
itemPriceBaseQuantity	100
<b><i>QuantityRange</i></b>	
minimumQuantity	0
maximumQuantity	50000
<b><i>PurchaseConditionsPriceInformation</i></b>	
itemPriceExclusiveAllowancesCharges	12,50 EUR
itemPriceBaseQuantity	100
<b><i>QuantityRange</i></b>	
minimumQuantity	50000
maximumQuantity	100000
<b><i>QuantityRange (+purchaseconditionsQuantityRange)</i></b>	
maximumQuantity	25000
minimumQuantity	100000

## 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.	☒	
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.	☒	
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.	☒	

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
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"/>	
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 <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