



Business Message Standard (BMS) Purchase Conditions

BMS Release: 2.5.0, BRG Name: eCom

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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

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
24-Jun- 2005	0.0.1	Coen Janssen	Initial Draft		NOT APPLICABLE
11-Jul-2005	0.0.2	Coen Janssen	BRG / IRT comments	Changes to class diagram and GDD section. Changes to use case description.	NOT APPLICABLE
18-Jul-2005	0.0.3	Coen Janssen	Peer review comments	Several minor changes.	P4CL 7152
29-Aug-2005	0.1.0	Coen Janssen	Motion to progress	Changes to use case diagram, class diagram, GDD report, business example.	P4CL 7367
13-Oct-2005	0.1.1	Coen Janssen	Build master comments	Renamed some classes to use term PurchaseConditions consistently.	P4CL 7571
06-Feb-2006	0.1.2	Coen Janssen	Bugfix on BMS version 2.1	See paragraph 1.10 for detailed changes. Updated sections 1.5 and 1.6 accordingly.	P4CL 8918
25-Apr-2007	0.1.3	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	NOT APPLICABLE
29-Aug-2008	0.2.0	John Ryu	Upgrade to BMS for Release 2.5.0	Incorporate BRAD Purchase Conditions CR 07-000244 Incorporate CR 8-33 Requirements Queue Section 10 details the summary of changes	NOT APPLICABLE
01-Dec -2008	0.2.1	Lisa Herrick	BMS Release 2.5.0 Final Public Review	Noted in summary of changes	P4 CL10744
06-Feb-2009	Issue 0.2.1	Lisa Herrick	BMS Release 2.5.0 eBallot Approved	Noted in summary of changes	Not Applicable

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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

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 Common Library Release 2.5.0	The documented design of components that are reused in multiple messages.
3	BRAD Upstream Standards – Purchase Conditions 0.0.3	The BRAD based on Upstream Standards.
4.	Requirements Queue CR 7-244 and 8-33	The Approved business requirements added into version 2.5.0

1.5. Acknowledgements

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EANCOM Technical Designer	Not Applicable	Not Applicable
Peer Reviewer	Eric Kauz	GS1

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

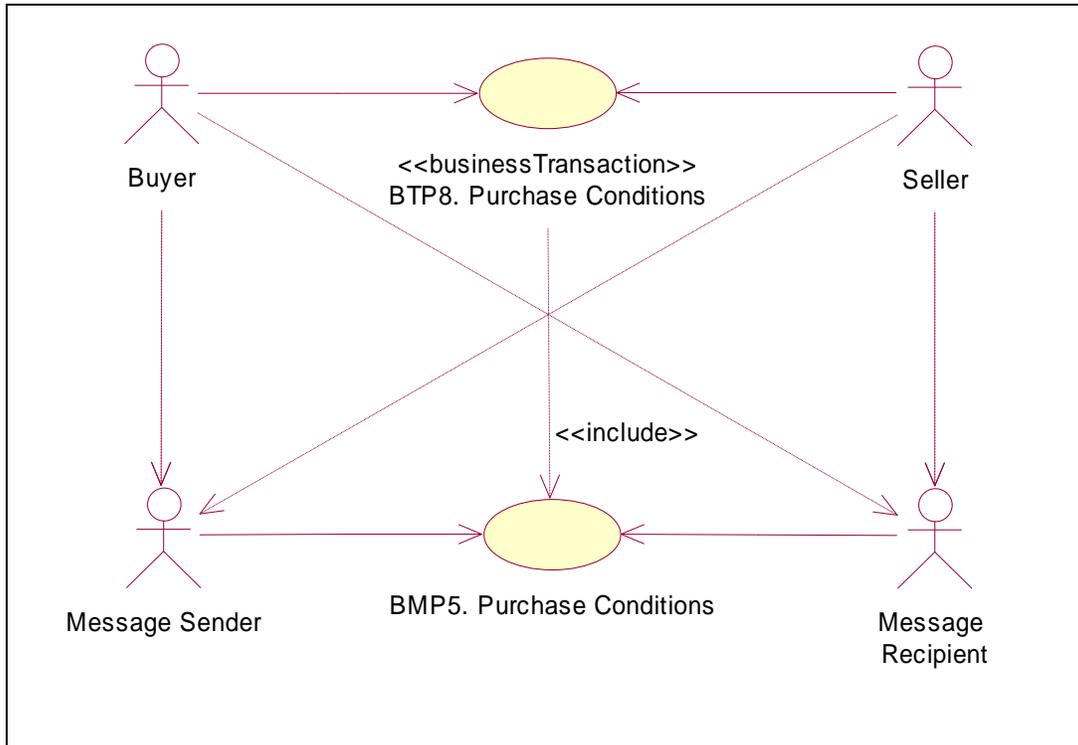
3.1. Technical Requirements (optional)

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

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	Begins when: The buyer generates the purchase conditions message

	Continues with:		
	Step #	Actor	Activity Step
	1.	Buyer	Sends Purchase Conditions message to the Seller.
	2.	Seller	Receives Purchase Conditions Message
Ends when: the seller has received the purchase conditions message			
Alternative Scenario	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		

4.3. Business Transaction Activity Diagram(s)

Not Applicable

4.4. Business Transaction Sequence Diagram(s)

Not Applicable

5. Information Model

5.1. GDD Report: Purchase Conditions

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
PurchaseConditions				Purchase Conditions. Details	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.			[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
	purchaseConditionsCurrency			Purchase Conditions. Purchase Conditions Currency. ISO4217_Code	The currency in which all amounts in the document are stated.	1..1	Code. Content	[BRAD Upstream Standards – Purchase Conditions 0.0.3]	Facets constrained by code list values
		accountingCurrencyInformation	CurrencyExchangeRateInformation	Purchase Conditions. Accounting Currency Information. Currency Exchange Rate Information	Contains information about the currency and exchange rate that need to be applied during the invoicing process, such as the calculation of taxes.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
			Document	Purchase Conditions. Inheritance. Document	Provides the document detail information.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#2,3}	
		purchaseConditionsIdentification	EntityIdentification	Purchase Conditions. Purchase Conditions Identification. Entity Identification	The unique identification of the Purchase Conditions document.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#1}	
		buyer	PartyIdentification	Purchase Conditions. Buyer. Party Identification	Identifies the party to which the products or services are sold.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#4}	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
		payee	PartyIdentification	Purchase Conditions. Payee. Party Identification	Identifies the credit party when other than the beneficiary.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
		payer	PartyIdentification	Purchase Conditions. Payer. Party Identification	Identifies the party which is initiating payment.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
		remitTo	PartyIdentification	Purchase Conditions. Remit To. Party Identification	The party (account owner) that receives a payment when such party is not the same as the seller.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
		seller	PartyIdentification	Purchase Conditions. Seller. Party Identification	Identifies the party which sells products or services to a buyer.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#5}	
		taxRepresentative	PartyIdentification	Purchase Conditions. Tax Representative. Party Identification	The party who is responsible for declaring the Value Added Tax (VAT) on the sale of goods or services.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#1-8}	
			PurchaseConditionsLocationInformation	Purchase Conditions. Association. Purchase Conditions Location Information	Provides the location information for the Purchase Conditions.	1..*		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
PurchaseConditionsCommitmentPeriod				Purchase Conditions Commitment Period. Details	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.			[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
	commitmentPeriodDuration			Purchase Conditions Commitment Period. Duration. Numeric	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.	1..1	Numeric. Content Numeric. Format. Text	[BRAD Upstream Standards – Purchase Conditions 0.0.3]	No Restrictions



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
	commitmentType			Purchase Conditions Commitment Period. Commitment Type. Condition Type_ Code	Indicates whether the commitment refers to goods to be produced or goods to be delivered.	1..1	Code. Content	[BRAD Upstream Standards – Purchase Conditions 0.0.3]	Facets constrained by code list values
	timeBucketSize			Purchase Conditions Commitment Period. Time Bucket Size . Bucket Size_ Code	Specifies the duration of a time bucket. Examples: WEEK, DAY.	1..1	Code. Content	[BRAD Upstream Standards – Purchase Conditions 0.0.3]	Facets constrained by code list values
PurchaseConditionsLineItem				Purchase Conditions Line Item. Details	Specifies the commercial conditions for a specific trade item.			[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
	discrepancyTolerance			Purchase Conditions Line Item. Discrepancy Tolerance. Percent_ Numeric	Percentage that specifies the allowed margin (positive or negative, relative to the specified purchase quantity) for which the purchase conditions will still apply.	0..1	Numeric. Content	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#29}	No Restrictions
	effectiveEndDateTime			Purchase Conditions Line Item. Effective End Date Time. Date Time	The date and time until which the purchase conditions will apply.	0..1	Date Time. Content Date Time. Format. Text	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#13}	No restrictions
	effectiveStartDateTime			Purchase Conditions Line Item. Effective Start Date Time. Date Time	The date and time as of which purchase conditions will apply.	1..1	Date Time. Content Date Time. Format. Text	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#12}	No restrictions
	maximumQuantity			Purchase Conditions Line Item. Maximum Quantity. Quantity	The maximum purchase quantity (cumulative) that has been agreed upon.	0..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#16}	No Restrictions



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
	minimumQuantity			Purchase Conditions Line Item. Minimum Quantity. Quantity	The minimum purchase quantity (cumulative) that has been agreed upon.	0..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#15}	No Restrictions
	packagingType			Purchase Conditions Line Item. Packaging Type. Code	Specifies the type of package in which the purchase goods are to be delivered.	0..1	Code. Content Code List. Agency. Identifier Code List. Agency Name. Text	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#17}	Facets constrained by code list values
	quantity			Purchase Conditions Line Item. Quantity. Quantity	The purchase quantity (cumulative) that has been agreed upon.	0..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#14}	No Restrictions
			AllowanceCharge	Purchase Conditions Line Item. Association. Allowance Charge	Identifies any allowances and or charges to be included in the purchase conditions.	0..*		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#21,22}	
			LineItem	Purchase Conditions Line Item. Inheritance. Line Item	Provides the line item information such as the line item number.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
			PurchaseConditionsCommitmentPeriod	Purchase Conditions Line Item. Association. Purchase Conditions Commitment Period	The hard production or delivery commitment that have been agreed by both parties for the trade item to be purchased.	0..*		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	



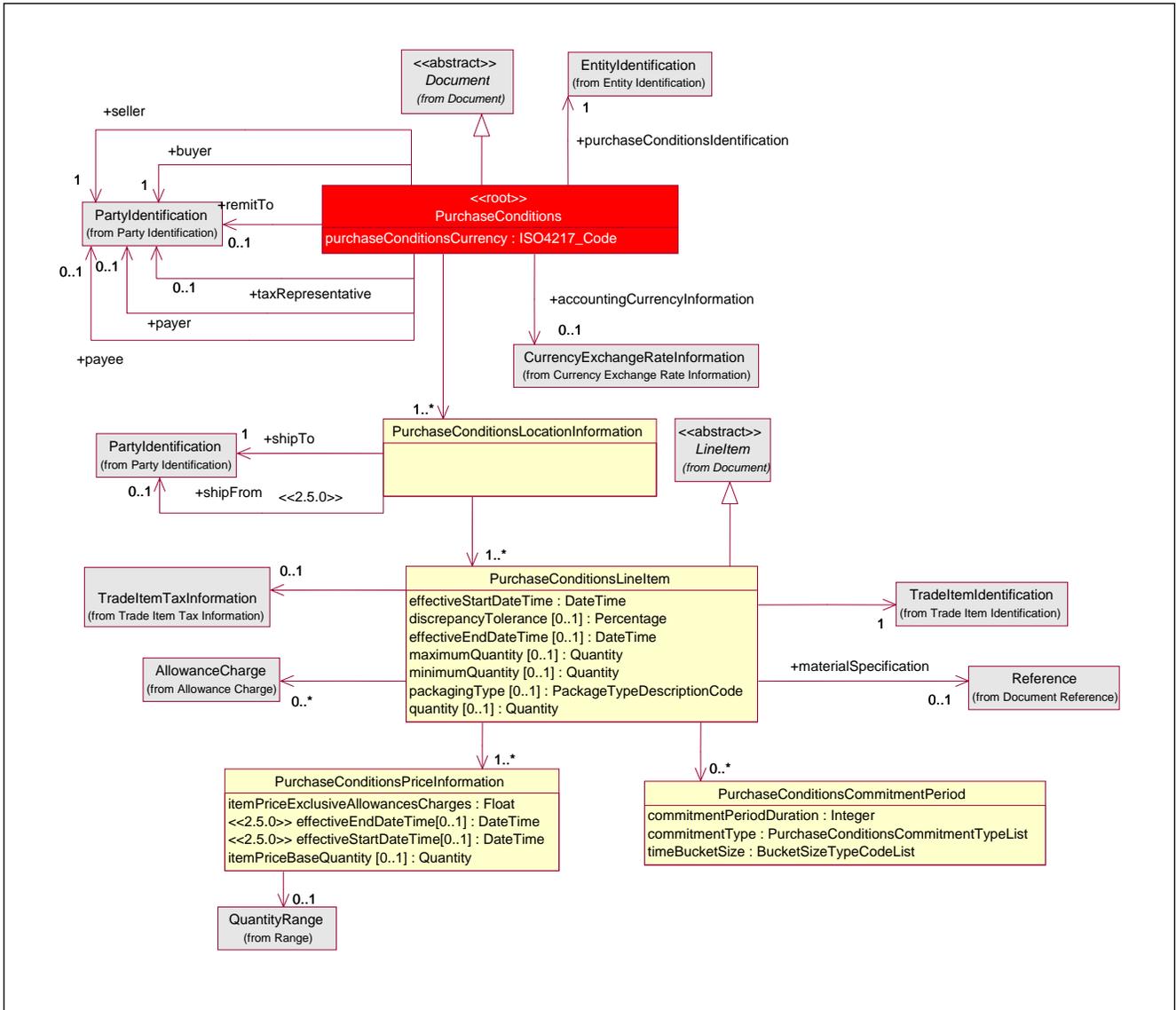
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
			PurchaseConditionsPriceInformation	Purchase Conditions Line Item. Association. Purchase Conditions Price Information	Specifies the agreed price(s) that will apply to the trade item to be purchased.	1..*		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
		materialSpecification	Reference	Purchase Conditions Line Item. Material Specification. Reference	References any additional product specifications to be included in the purchase conditions.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#26}	
			TradeItemIdentification	Purchase Conditions Line Item. Association. Trade Item Identification	Identifies the trade item to which the purchase conditions apply.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#10,11}	
			TradeItemTaxInformation	Purchase Conditions Line Item. Association. Trade Item Tax Information	Specifies the taxes that will apply to the goods to be purchased.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#23,24,25}	
PurchaseConditionsLocationInformation				Purchase Conditions Location Information. Details	Specifies a combination of one ship from and one ship to location to which the underlying purchase conditions apply.			[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
		shipFrom	PartyIdentification	Purchase Conditions Location Information. Ship From. Party Identification	The Ship From location to which the purchase conditions apply.	0..1		[BRAD – Purchase Conditions 0.0.1] {Section 7.1.1 BR#1}; CR 07-000244	
		shipTo	PartyIdentification	Purchase Conditions Location Information. Ship To. Party Identification	The Ship To location to which the purchase conditions apply.	1..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#6}	
			PurchaseConditionsLineItem	Purchase Conditions Location Information. Association. Purchase Conditions Line Item	This information on PurchaseConditionsLineItem for PurchaseConditionsLocationInformation.	1..*		[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#6}	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Data Type Components	Related Requirements	Facets
PurchaseConditionsPriceInformation				Purchase Conditions Price Information. Details	Specifies the agreed price of a trade item and optionally the quantity range for which the price is valid.			[BRAD Upstream Standards – Purchase Conditions 0.0.3]	
	effectiveEndDateTime			Purchase Conditions Price Information.Effective End Date Time.Date Time	Provides the ending time frame for the price in the purchase condition	0..1	Date Time. Content Date Time. Format. Text	CR 08-000033	
	effectiveStartDateTime			Purchase Conditions Price Information.Effective Start Date Time.Date Time	Provides the beginning time frame for the price in the purchase condition.	0..1	Date Time. Content Date Time. Format. Text	CR 08-000033	
	itemPriceBaseQuantity			Purchase Conditions Price Information. Item Price Base Quantity. Quantity	Specifies the quantity in which the price is expressed. For example: item price = \$10 per 1000 units.	0..1	Quantity. Content Quantity Unit. Code Quantity Unit. Code List Agency. Identifier	[BRAD Upstream Standards – Purchase Conditions 0.0.3] {7.1.1 BR#18.19}	No restrictions Facets constrained by code list values
	itemPriceExclusiveAllowancesCharges			Purchase Conditions Price Information. Item Price Exclusive Allowances Charges. Float_Numeric	Specifies the agreed price.	1..1	Numeric. Content	[BRAD Upstream Standards – Purchase Conditions 0.0.3]	No Restrictions
			QuantityRange	Purchase Conditions Price Information. Association. Quantity Range	Defines the upper and lower purchase quantity between which the specified price is valid.	0..1		[BRAD Upstream Standards – Purchase Conditions 0.0.3]	

5.2. Class Diagram

5.2.1. Purchase Conditions

Figure 5-1 Class Diagram: Purchase Conditions



✓ **Note:** Reference Common Library Business Message (BMS) Release 2.5.0 for all common information.

5.3. Code Lists

✓ **Note:** Reference Common Library Business Message Release 2.5.0 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 9th at 11 AM. The message is identified with the unique identifier 2005001. 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 18th 2005
- 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 18th 2005
- 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

PurchaseConditions	
- creationDateTime	2005-02-09T11:00:00
- documentStatus	ORIGINAL
- purchaseConditionsCurrency	EUR
EntityIdentification (+PurchaseConditionsIdentification)	
- uniqueCreatorIdentification	2005001
PartyIdentification (+contentOwner)	
- gLN	8712345678913
PartyIdentification (+seller)	
- gLN	8812345678903
PartyIdentification (+buyer)	
- gLN	8712345678913
PurchaseConditionsLocationInformation *1	
PartyIdentification (+shipTo)	
- gLN	8712345670009
PartyIdentification (+shipFrom)	
- gLN	8812345678950
PurchaseConditionsLineItem *1.1	
- lineItemNumber	1
- discrepancyTolerance	5
- effectiveStartDateTime	2005-02-18T00:00:00:000
- quantity (value, unitOfMeasure)	100000
TradeItemIdentification	
- gTIN	08712345678906
PurchaseConditionsPriceInformation	
- Item Price Exclusive Allowances Charges	12
PurchaseConditionsCommitmentPeriod	
- commitmentPeriodDuration	5
- commitmentType	DELIVERY
- timeBucketSize	DAY
PurchaseConditionsLocationInformation *2	
PartyIdentification (+shipTo)	
- gLN	8712345678951
PurchaseConditionsLineItem *2.1	
- lineItemNumber	2

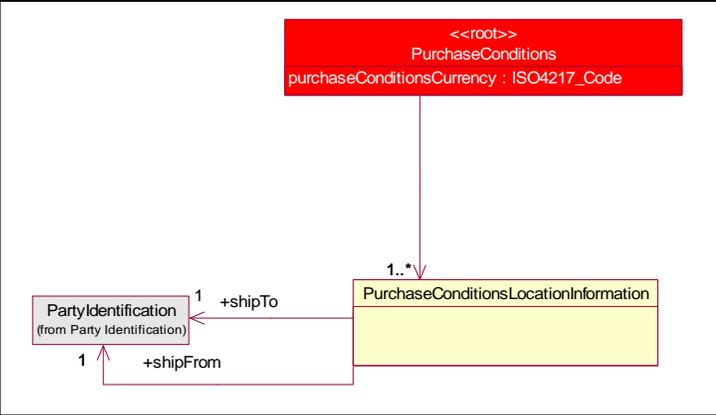
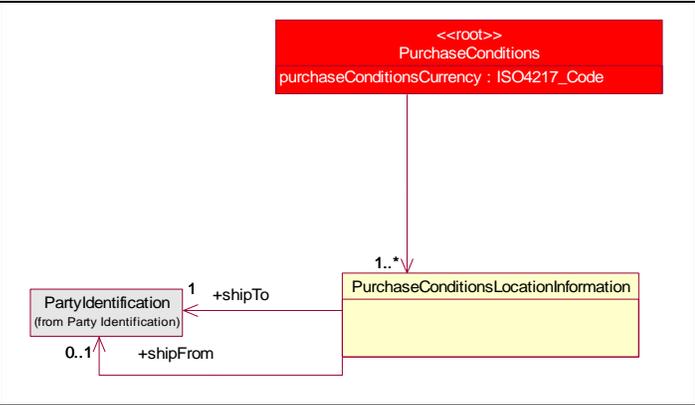
PurchaseConditions	
- effectiveStartDateTime	2005-02-18T00:00:00:000
- minimumQuantity (value, unitOfMeasure)	25000
- maximumQuantity (value, unitOfMeasure)	100000
TradeItemIdentification	
- gTIN	08712345678906
PurchaseConditionsPriceInformation	
- itemPriceExclusiveAllowancesCharges	13,50
- itemPriceBaseQuantity	100
QuantityRange	
- minimum	0
- maximum	50000
PurchaseConditionsPriceInformation	
- Item Price Exclusive Allowances Charges	12,50
- Item Price Base Quantity	100
QuantityRange	
- minimum	50000
- maximum	100000

9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number
PurchaseConditions (root class) <ul style="list-style-type: none"> Added new mandatory attribute purchaseConditionsCurrency. PurchaseConditionsLineItem <ul style="list-style-type: none"> Changed cardinality of association to PurchaseConditionsCommitmentPeriod from 0..1 into 0..* PurchaseConditionsPriceInformation <ul style="list-style-type: none"> Changed data type of attribute itemPriceExclusiveAllowancesCharges from Amount into Float. 	0.1.2	05-000118

Change	BSD Version	Associated CR Number
<p>BMS Release 2.1.1</p>  <p>BMS Release 2.5.0</p>  <p>PurchaseConditionsLocationInformation Association to PartyIdentification +shipFrom(1..1) Changed cardinality +shipFrom Role (FROM:mandatory 1..1 TO: Optional 0..1)</p>	0.2.0	07-000244

Change	BSD Version	Associated CR Number
Added two attributes in class:PurchaseConditionsPriceInformation effectiveEndDateTime[0..1] : DateTime effectiveStartDateTime[0..1] : DateTime <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">PurchaseConditionsPriceInformation</p> itemPriceExclusiveAllowancesCharges : Float <<2.5.0>> effectiveEndDateTime[0..1] : DateTime <<2.5.0>> effectiveStartDateTime[0..1] : DateTime itemPriceBaseQuantity [0..1] : Quantity </div>	0.2.0	08-000033 08-000209
GDD Added the Related Requirement into GDD Platform. Test Data Sample In second usage of Purchase ConditionsLocationInformation removed the ShipFrom value to be consistent with the CR 07-244 requirement to change ShipFrom from mandatory to optional.	0.2.0	Not Applicable
For BMS Release 2.5.0 <ul style="list-style-type: none"> ■ Prep document for public review on 01-Dec-2008 ■ Remove Code Lists & Add notes to reference Common Library BMS for Code Lists and Common Information. 	0.2.1	Not Applicable
For BMS Release 2.5.0 <ul style="list-style-type: none"> ■ eBallot Approved, Updated BMS to 'Approved' Status ■ Update version to 'Issue' 	Issue 0.2.1	Not Applicable