The Global Language of Business

Purchase Conditions Business Message Standard (BMS)

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Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue 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
12-Jan-2012	BMS 3.0 – Issue 1	Mark Van Eeghem	BMS Release 3.0	See summary of changes
01-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Release 3.1	See summary of changes
15-Sep-2014	BMS 3.2 – Issue 1	Ewa Iwicka	BMS Release 3.2	See summary of changes

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Date of Change	Version	Changed By	Reason for Change	Summary of Change
01-Mar-2017	BMS 3.3 – Issue 1	Ewa Iwicka	BMS Release 3.3	See summary of changes
15-Oct-2018	BMS 3.4 – Draft for community review	Ewa Iwicka	BMS Release 3.4	See summary of changes
08-Nov-2019	BMS 3.4.1 – Issue 1	Radhika Chauhan	BMS Release 3.4.1	See summary of changes

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1 Business Domain View

1.1 Introduction

Message Definition

The Purchase Conditions message expressing the official commitment between buyer and seller that certain quantities of goods 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.

Principles

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 References

Reference Number	Reference Name	Description
1	BRAD Purchase Conditions	The motioned BRAD to address CR 07-000244.
2	BMS eCom Common Library 3.4	The documented design of components that are reused in multiple messages across the eCom domain.
3	BMS Shared Common Library 3.4	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

2 Business Context

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

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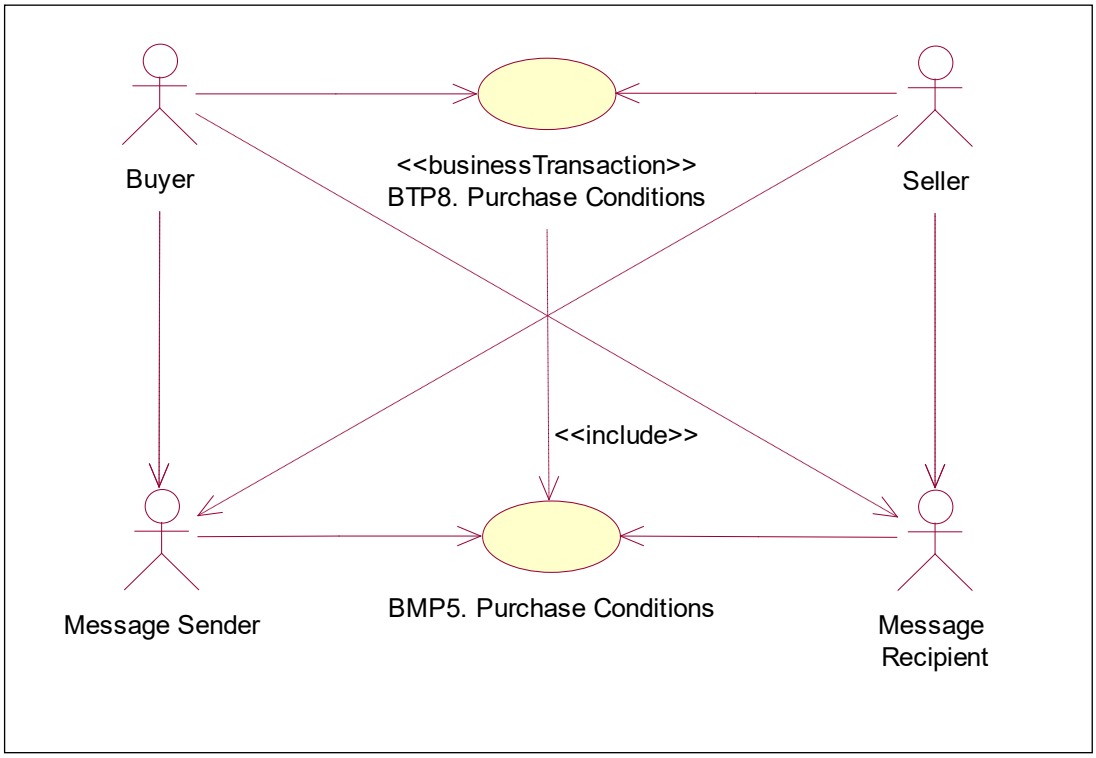
3 Business Transaction View

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	**Begins when:** The buyer generates the purchase conditions message **Continues with**:

Step #	Actor	Activity Step
1.	Buyer	Sends Purchase Conditions message to the Seller.

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<table>
<tr><td></td><td><table><tr><td>2.</td><td>Seller</td><td>Receives Purchase Conditions Message</td></tr></table>Ends when: the seller has received the purchase conditions message</td></tr>
<tr><td>Alternative Scenario</td><td><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></td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>Not Applicable</td></tr>
</table>

Activity Diagram(s)

Not Applicable

Sequence Diagram(s)

Not Applicable

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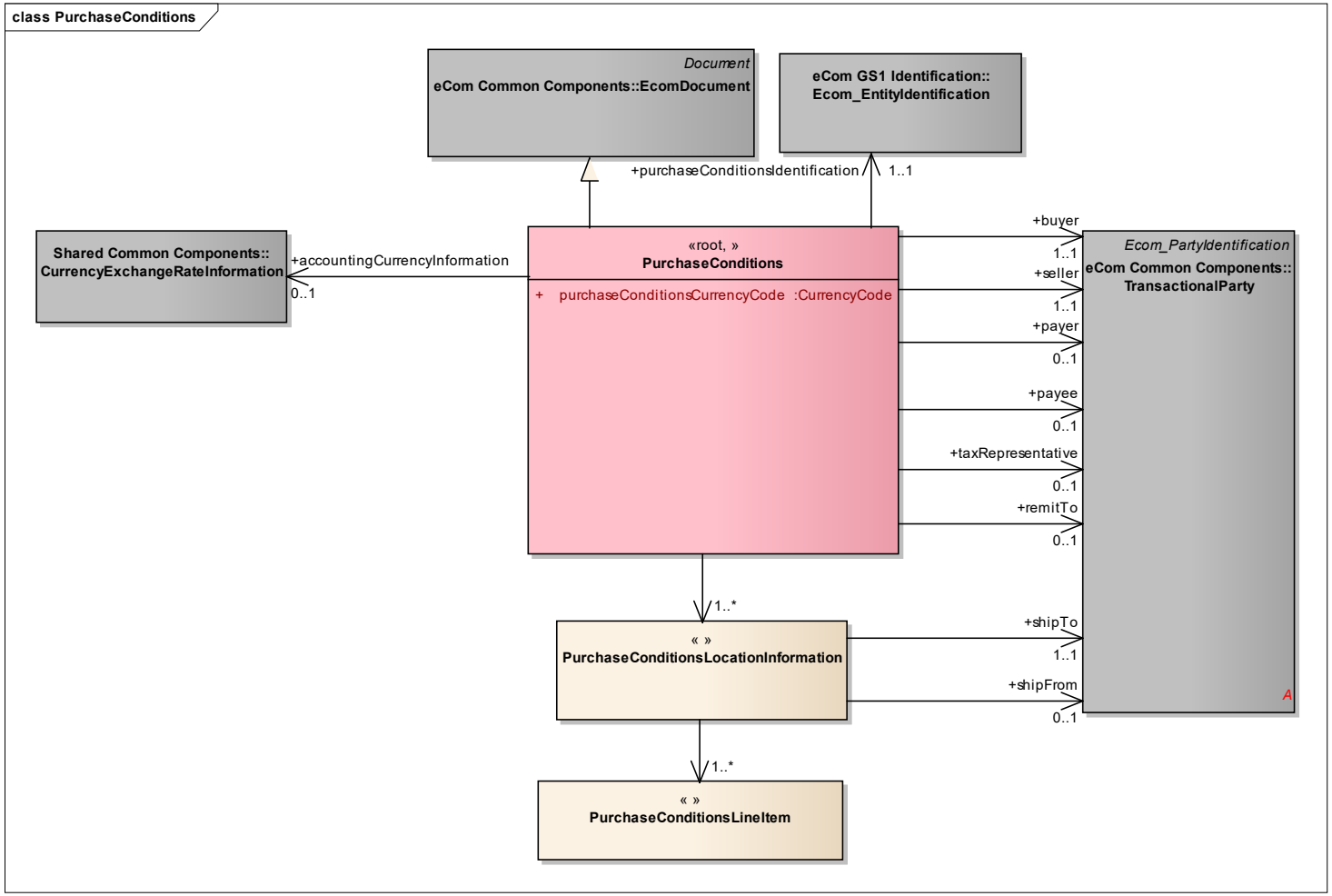
4 Business Information View

4.1 Purchase Conditions

Class diagram



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GDD Report

The content of the PurchaseConditions class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PurchaseConditions*

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	remitTo	TransactionalParty	0..1	The party (account owner) that receives a payment when such party is not the same as the seller.	
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	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		PurchaseConditionsLocationInformation	1..*	Provides the location information for the Purchase Conditions.	
Association	buyer	TransactionalParty	1..1	Identifies the party to which the products or services are sold.	
Association	purchaseConditionsIdentification	Ecom_EntityIdentification	1..1	The unique identification of the Purchase Conditions document.	WR 15-000314
Association	payer	TransactionalParty	0..1	Identifies the Party which pays for products or services to a seller.	
Association	seller	TransactionalParty	1..1	Identifies the party which sells products or services to a buyer.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association	payee	TransactionalParty	0..1	Identifies the credit party when other than the beneficiary.	
Attribute	purchaseConditionsCurrencyCode	CurrencyCode	1..1	The currency in which all amounts in the document are stated.	
PurchaseConditionsLocationInformation				Specifies a combination of one ship from and one ship to location to which the underlying purchase conditions apply.	

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Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association	shipTo	TransactionalParty	1..1	The Ship To 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	shipFrom	TransactionalParty	0..1	The Ship From location to which the purchase conditions apply.	

Note: Reference Shared Common Library Business Message (BMS) Release 3.4 and eCom Domain Common Library Business Message (BMS) Release 3.4 for all common information.

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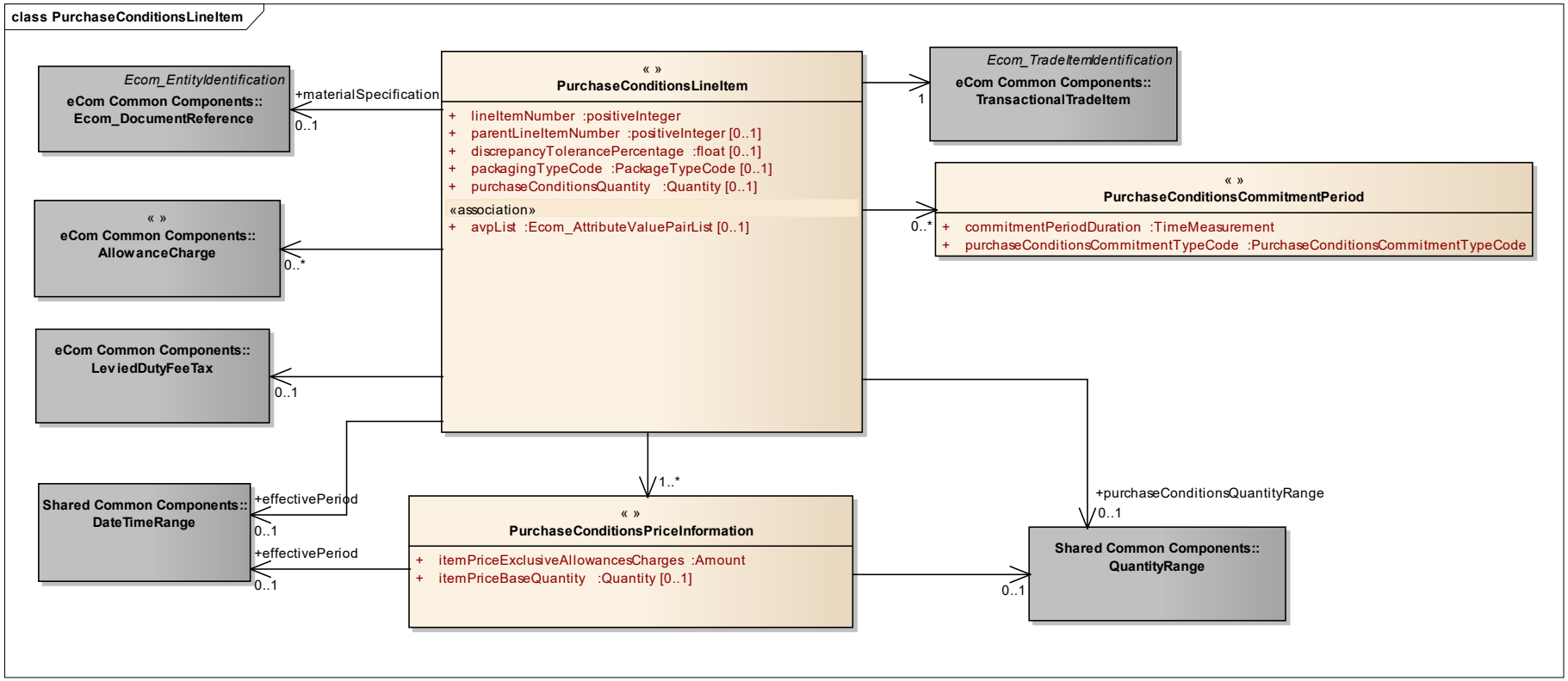
4.2 Purchase Conditions Line Item

Class Diagram



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GDD Report

The content of the PurchaseConditionsLineItem class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:PurchaseConditionsLineItem*

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
PurchaseConditionsLineItem				Specifies the commercial conditions for a specific trade item.	
Association		LeviedDutyFeeTax	0..1	Specifies the taxes that will apply to the goods to be purchased.	
Association		TransactionalTradeItem	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	effectivePeriod	DateTimeRange	0..1	The period during which the purchase conditions apply.	
Association	purchaseConditionsQuantityRange	QuantityRange	0..1	The purchase quantity range (cumulative) that has been agreed upon.	
Association		PurchaseConditionsCommitmentPeriod	0..*	The hard production or delivery commitment that have been agreed by both parties for the trade item to be purchased.	
Association	materialSpecification	Ecom_DocumentReference	0..1	References any additional product specifications to be included in the purchase conditions.	WR 15-000314
Association		PurchaseConditionsPriceInformation	1..*	Specifies the agreed price(s) that will apply to the trade item 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.	

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Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Attribute	parentLineItemNumber	positiveInteger	0..1	The number of line item containing information about the parent of the current item. It allows establishing hierarchical link between the two items.	WR 14-000021 WR 14-000044
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110
PurchaseConditionsPriceInformation				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	itemPriceExclusiveAllowancesCharges	Amount	1..1	Specifies the agreed price.	
Attribute	itemPriceBaseQuantity	Quantity	0..1	Specifies the quantity in which the price is expressed. For example: item price = $10 per 1000 units.	
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.	
Attribute	purchaseConditionsCommitmentTypeCode	PurchaseConditionsCommitmentTypeCode	1..1	Indicates whether the commitment refers to goods to be produced or goods to be delivered.	

Note: Reference Shared Common Library Business Message (BMS) Release 3.4 and eCom Domain Common Library Business Message (BMS) Release 3.4 for all common information.

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4.3 Enumerations (message specific)

Not applicable

4.4 Code Lists

Class	Codelist	Referenced in
PurchaseConditions	CurrencyCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:CurrencyCode*
PurchaseConditionsCommitmentPeriod	PurchaseConditionsCommitmentTypeCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PurchaseConditionsCommitmentTypeCode*
PurchaseConditionsLineItem	PackageTypeCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PackageTypeCode*

Note: Refer to the Global Data Dictionary (GDD) for the code values.

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5 Business Message Examples

5.1 Example

This is an example of a Purchase Conditions message. The message is sent out on February 9th 2011 at 11 AM. The message is identified with the unique identifier PC356987. The content owner is the sending party, in this case the Buyer (5412345000013).

The gross requirements are sent by the Buyer (8712345678913) to the Seller (4098765000010).

The purchase conditions are for two delivery sites, X (Ship To 5412345000174) and Y (Ship To 5412345000228). There is only one shipping site, Z (Ship From 4098765000997).

Party Information

GS1 Global Location Number	Party Type
5412345000013	Buyer
4098765000010	Seller
4098765000997	Ship From Z
5412345000174	Ship to X
5412345000228	Ship to Y

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

Trade Item A (GTIN 40987650000223):

- Agreement applies to 100.000 units
- Start date of agreement is February 18th 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 40987650000223):

- Agreement applies to 25.000 to 100.000 units
- Start date of agreement is February 18th 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 Example

Attribute	Value
PurchaseConditions	
purchaseConditionsCurrencyCode	EUR
Document	
creationDateTime	2011-02-09T11:00:00
documentStatus	ORIGINAL
EntityIdentification (+PurchaseConditionsIdentification)	
entityIdentification	PC356987
PartyIdentification (+contentOwner)	
gln	5412345000013
TransactionalParty (+seller)	

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Attribute	Value
gln	4098765000010
TransactionalParty (+buyer)	
gln	5412345000013
PurchaseConditionsLocationInformation	
TransactionalParty (+shipTo)	
gln	5412345000174
TransactionalParty (+shipFrom)	
gln	4098765000997
PurchaseConditionsLineItem	
lineItemNumber	1
discrepancyTolerancePercentage	5
purchaseConditionsQuantity	100000
DateTimeRange (+effectivePeriod)	
beginDate	2011-02-18
TransactionalTradeItem	
gtin	40987650000223
PurchaseConditionsPriceInformation	
itemPriceExclusiveAllowancesCharges	12 EUR
PurchaseConditionsCommitmentPeriod	
commitmentPeriodDuration	5 DAYS
purchaseConditionsCommitmentTypeCode	DELIVERY
PurchaseConditionsLocationInformation	
TransactionalParty (+shipTo)	
gln	5412345000228
PurchaseConditionsLineItem	
lineItemNumber	2
DateTimeRange (+effectivePeriod)	
beginDate	2011-02-18
TransactionalTradeItem	
gtin	40987650000223
PurchaseConditionsPriceInformation	
itemPriceExclusiveAllowancesCharges	13.50 EUR
itemPriceBaseQuantity	100
QuantityRange	
minimumQuantity	0
maximumQuantity	50000
PurchaseConditionsPriceInformation	
itemPriceExclusiveAllowancesCharges	12.50 EUR
itemPriceBaseQuantity	100
QuantityRange	
minimumQuantity	50000

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Attribute	Value
maximumQuantity	100000
QuantityRange (+purchaseconditionsQuantityRange)	
maximumQuantity	25000
minimumQuantity	100000

6 Implementation Considerations

6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Purchase Conditions message: *http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#PurchaseConditions*

6.2 Message Specific Considerations

Not Applicable

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7 Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: ***http://wr.gs1.org***. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.

Note: WRs submitted earlier than February 2012 should be searched in Old Change Requests.

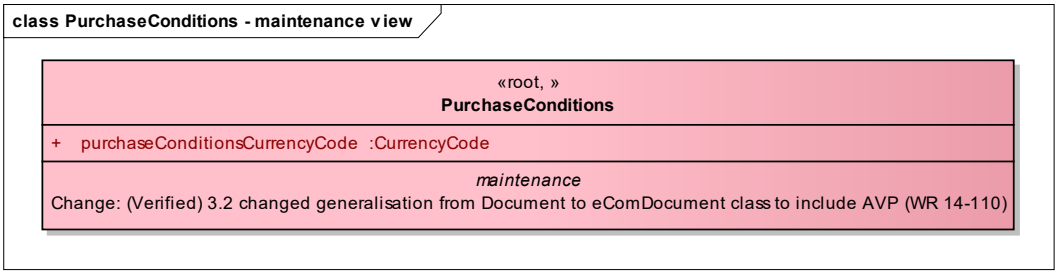
7.1 BMS Release 3.0

Change	Associated CR Number
For BMS Release 3.0.0 ▪ allowance charge codelist updated. ▪ Remodelled to be in line with new MR3.0 modelling guidelines. ▪ Updated GDD Reports and Class diagrams ▪ Updated the Business example/test data sections ▪ Added Architectural Principles section.	09-000195
For BMS Release 3.0.0 ▪ Added copyright R in GS1 logo ▪ Removed year reference in footer copyright statement ▪ Replaced section 10 with updated AG Principles	Not Applicable

7.2 BMS Release 3.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.3 BMS Release 3.2

Change	Associated WR
Added Attribute Value Pair at the root, line item and sub line item levels 	**14-000110**

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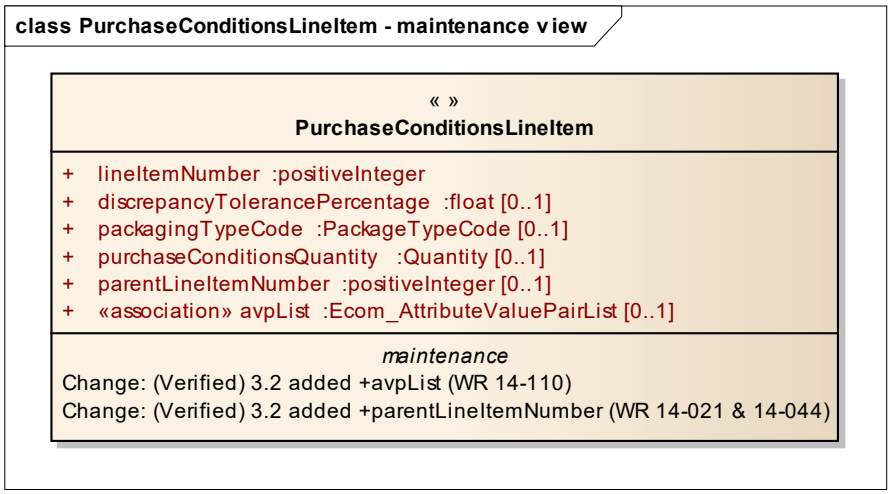
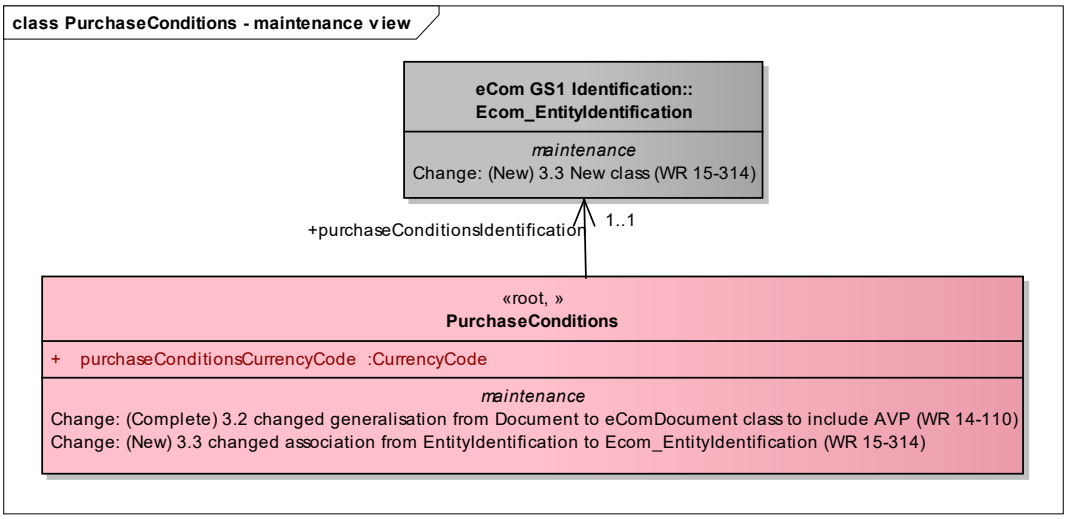
Change	Associated WR
■ Added Attribute Value Pair at the root, line item and sub line item levels (WR 14-110) ■ Added a reference to parent line number to all LineItem classes, to support hierarchical items (WRs 14-021 & 14-044)	**14-000021** **14-000044** **14-000110**

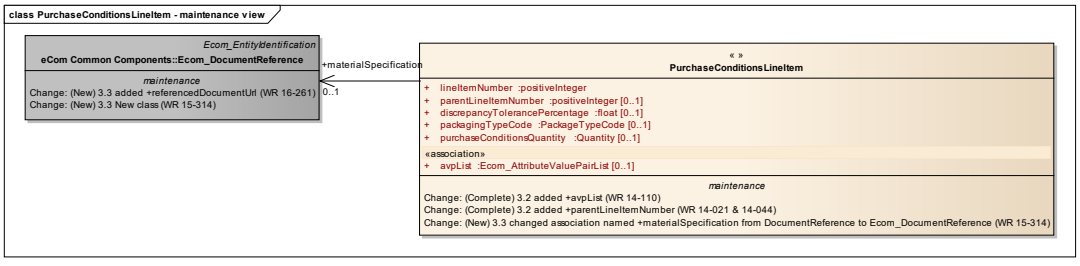


7.4 BMS Release 3.3

Change	Associated WR
Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification	**15-000314** Make GS1 identification keys optional in GS1 EDI XML



Change	Associated WR
Created Ecom_DocumentReference class and changed association from the previous DocumentReference	**15-000314** Make GS1 identification keys optional in GS1 EDI XML



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7.5 BMS Release 3.4

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

7.6 BMS Release 3.4.1

No work requests. Indirect changes due to upgrade to new Shared and eCom Common libraries.

8 Appendices

Not Applicable

9 Acknowledgements

9.1 Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
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Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG
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Member	Canada, ON	M3B 3L1
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Member	Chresta, Richard	GS1 Switzerland
Member	Cook, Don	Wal-Mart Stores, Inc.
Member	Cox, Marc	Philips Electronics N.V.
Member	Darnell, David	Systrends
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Member	Laur, Rita	GS1 Canada
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Member	Strand, Roman	GS1 Germany
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Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
Member	Veldhuis, Saskia	Procter & Gamble Co.
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9.2 Development Team Members

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Peer Review	Mark Van Eeghem	GS1 Global Office

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