



Inventory Report

Business Message Standard (BMS)

Release 3.2

01-Dec-2014, Issue 1



Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS) – Inventory Report
BMS Release	3.2
Document Version	Issue 1, 01-Dec-2014
Work Group Name	eCom SMG
BMS Template Version	2.4

Work Request Reference

Date of WR Submission to GSMP:	WR Submitter(s):	Refer to Work Request (WR) Number(s):
20- Aug- 2008	GS1 Global Office	08-000209
08- Aug- 2007	Accenture	07-000309
05-Nov-2004	GS1 Global Office	04-000211
07-Feb-2014	GS1 Germany	14-000021
20-Mar-2014	GS1 Slovenia	14-000044
25-Jun-2014	GS1 Global Office	14-000110

Business Requirements Document (BRAD) Reference

BRAD Title	BRD Issue Date	BRAD Version
BRAD Upstream Standards - Demand & Supply Signals	01-Nov-2004	0.1.0
BRD for Inventory Activity or Inventory Status	19-Nov-2004	0.6.2

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
01-Dec-2014	BMS 3.2 – Issue 1	Ewa Iwicka	BMS Release 3.2	See summary of changes

Disclaimer

WHILST EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE GUIDELINES TO USE THE GS1 STANDARDS CONTAINED IN THE DOCUMENT ARE CORRECT, GS1 AND ANY OTHER PARTY INVOLVED IN THE CREATION OF THE DOCUMENT HEREBY STATE THAT THE DOCUMENT IS PROVIDED WITHOUT WARRANTY, EITHER EXPRESSED OR IMPLIED, REGARDING ANY MATTER, INCLUDING BUT NOT LIMITED TO THE OF ACCURACY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND HEREBY DISCLAIM ANY AND ALL LIABILITY, DIRECT OR INDIRECT, FOR ANY DAMAGES OR LOSS RELATING TO OR RESULTING FROM THE USE OF THE

DOCUMENT. THE DOCUMENT MAY BE MODIFIED, SUBJECT TO DEVELOPMENTS IN TECHNOLOGY, CHANGES TO THE STANDARDS, OR NEW LEGAL REQUIREMENTS. SEVERAL PRODUCTS AND COMPANY NAMES MENTIONED HEREIN MAY BE TRADEMARKS AND/OR REGISTERED TRADEMARKS OF THEIR RESPECTIVE COMPANIES. GS1 IS A REGISTERED TRADEMARK OF GS1 AISBL.

Table of Contents

1. Business Domain View	5
1.1. Introduction.....	5
1.2. References	5
2. Business Context	5
3. Business Transaction View	6
3.1. Business Transaction - Status Of Inventory.....	6
3.2. Business Transaction - Activity Of Inventory	7
3.3. Business Transaction - Seller Inventory	8
3.4. Business Transaction - Buyer Inventory	9
4. Business Information View	11
4.1. Inventory Report (Message).....	11
4.2. Inventory Activity Line Item	13
4.3. Inventory Status Line Item	15
4.4. Code Lists	17
5. Business Message Examples	17
5.1. Example 1	17
5.2. Example 2	20
6. Implementation Considerations	24
6.1. User Guide	24
6.2. Message Specific Considerations	24
7. Summary of Changes	24
7.1. BMS Release 3.0	25
7.2. BMS Release 3.1	25
7.3. BMS Release 3.2	26
8. Appendices	27
9. Acknowledgements	27
9.1.1. Work Group	27
9.1.2. Development Team Members	29

1. Business Domain View

1.1. Introduction

Message Definition

The Inventory Report message enables a party (the inventory reporting party) to provide information on inventory levels and inventory changes to another party (the inventory report to party).

Principles

The Inventory Report may be used to provide information on buyer inventory in case of supplier managed inventory, but also can be used to provide information about available stock at a seller. Also it can be applied by logistic service providers to provide information on the available stock to their client.

1.2. References

Reference Name
BMS Shared Common Library 3.2
BMS eCom Common Library 3.2
BRAD Upstream Standards - Demand & Supply Signals 0.1.0
BRD Inventory Activity or Inventory Status 0.6.2
BRAD Warehousing Inventory Management [BRAD-WIM]

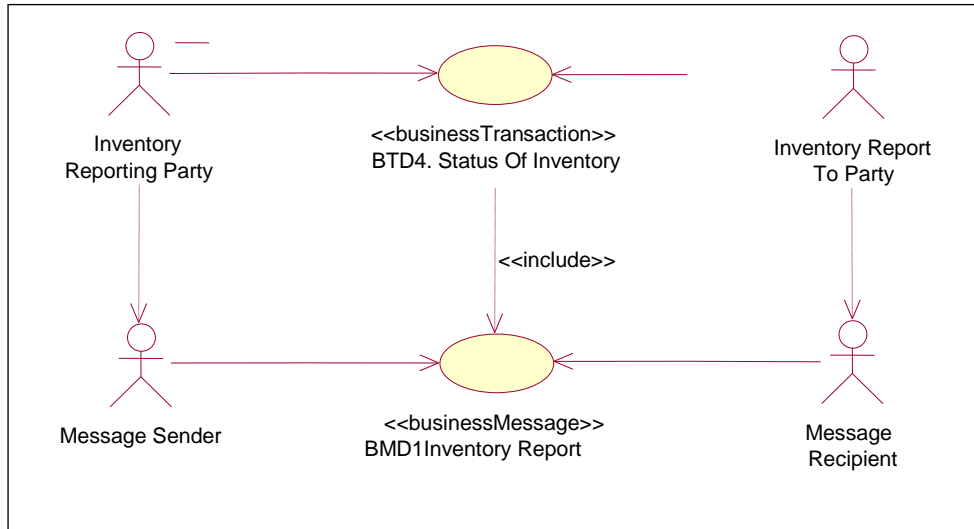
2. Business Context

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

3. Business Transaction View

3.1. Business Transaction - Status Of Inventory

Use Case Diagram



Use Case Description

Use Case ID	BTD4		
Use Case Name	Status of Inventory		
Use Case Description	This use case describes the exchange of the Inventory Status. The inventory Report provides the inventory levels of an item where items are stored.		
Actors (Goal)	Inventory Report To Party: The actor who receives the Inventory Status. This role can be played by various parties (Distributor, Manufacturer, Material Supplier, Owner of items, Place where items are stored, Retailer, Warehouse, and Wholesaler). Inventory Reporting Party: The actor who transmits the Inventory Report. This role can be played by various parties (Distributor, Manufacturer, Material Supplier, Owner of items, Place where items are stored, Retailer, Warehouse, and Wholesaler).		
Preconditions	Both trading partners have agreed upon the reporting dates and times.		
Post conditions	Success: The 'Inventory Report To Party' receives the Inventory Report message. Failure: The 'Inventory Report To Party' does not receive the Inventory Status message.		
Scenario	Begins when: The submitter of the inventory report prepares the Inventory Report message on the agreed upon date and time.		
	Continues with:		
	Step #	Actor	Activity Step
	1.	Inventory Reporting Party	Sends the Inventory Report.
	Ends when: The 'Inventory Report To Party' receives the Inventory Report message.		
Alternative Scenario	There are no alternative scenarios.		

Business Transaction Rules	
----------------------------	--

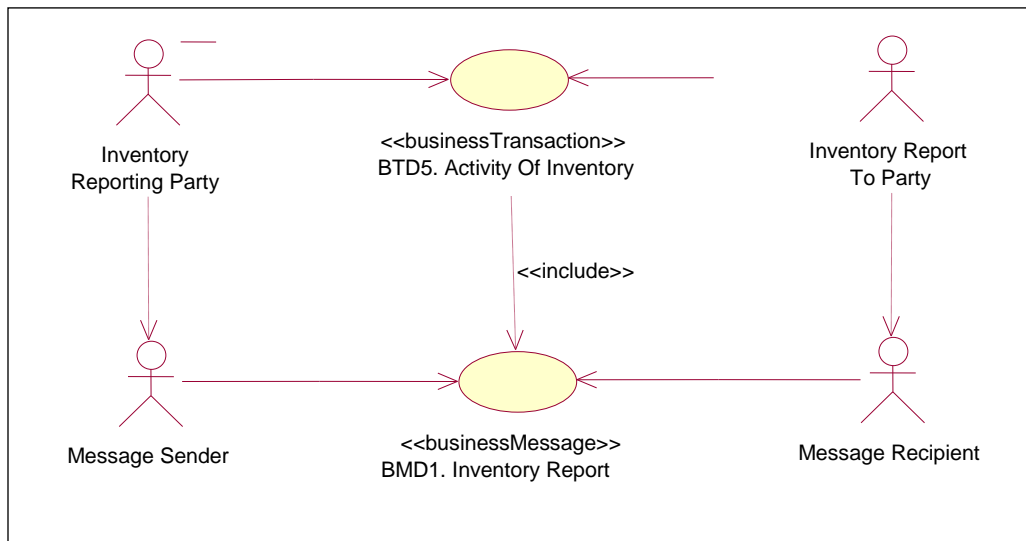
Activity Diagram(s)

Not Applicable

Sequence Diagram(s) (optional)

Not Applicable

3.2. Business Transaction - Activity Of Inventory

Use Case Diagram**Use Case Description**

Use Case ID	BTD5
Use Case Name	Activity of Inventory
Use Case Description	This use case describes the exchange of the Inventory Activity. The inventory activity provides the activity of an item.
Actors (Goal)	<p>Inventory Report To Party: The actor who receives the Inventory Activity. This role can be played by various parties (Distributor, Manufacturer, Material Supplier, Owner of items, Place where items are stored, Retailer, Warehouse, and Wholesaler).</p> <p>Inventory Reporting Party: The actor who transmits the Inventory Activity. This role can be played by various parties (Distributor, Manufacturer, Material Supplier, Owner of items, Place where items are stored, Retailer, Warehouse, and Wholesaler).</p>
Preconditions	Both trading partners have agreed upon the reporting dates and times.
Post conditions	<p>Success: The 'Inventory Report To Party' receives the Inventory Report message.</p> <p>Failure: The 'Inventory Report To Party' does not receive the Inventory Report message.</p>

Scenario	Begins when: The submitter of the inventory activity prepares the Inventory Report message on the agreed upon date and time.						
	Continues with:						
	<table border="1"> <thead> <tr> <th>Step #</th><th>Actor</th><th>Activity Step</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Inventory Reporting Party</td><td>Sends the Inventory Report.</td></tr> </tbody> </table>	Step #	Actor	Activity Step	1.	Inventory Reporting Party	Sends the Inventory Report.
Step #	Actor	Activity Step					
1.	Inventory Reporting Party	Sends the Inventory Report.					
	Ends when: The 'Inventory Report To Party' receives the Inventory Report message.						
Alternative Scenario	There are no alternative scenarios.						
Business Transaction Rules							

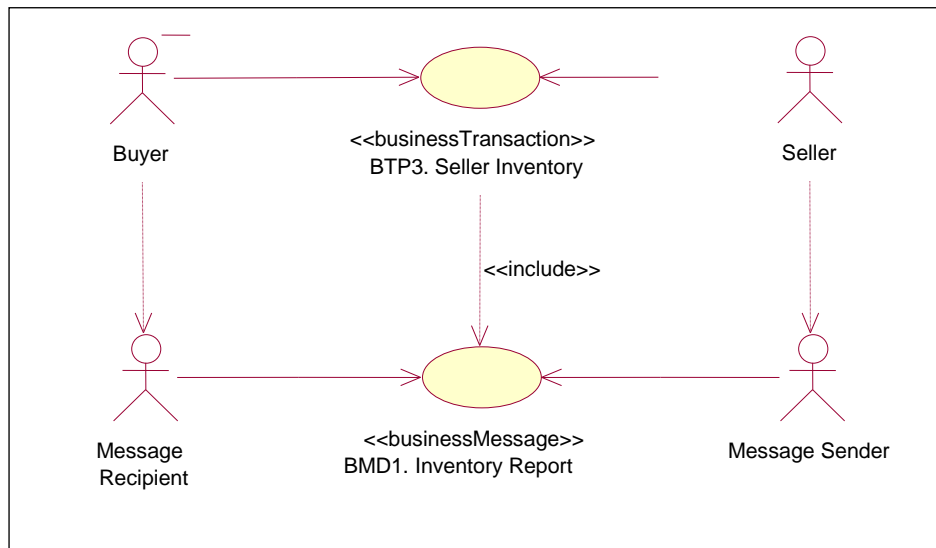
Activity Diagram(s)

Not Applicable

Sequence Diagram(s)

Not Applicable

3.3. Business Transaction - Seller Inventory

Use Case Diagram**Use Case Description**

Use Case ID	BTP3
Use Case Name	Seller Inventory
Use Case Description	The Seller Inventory transaction communicates at prescribed intervals the inventory levels of trade items in a specific location (plant, warehouse) to enable material requirements planning.

Actors (Goal)	Buyer: To receive the inventory level information of the Seller. Seller: To communicate his inventory level information.										
Preconditions	Inventory Status: CALCULATED										
Post conditions	Inventory Status: COMMUNICATED										
Scenario	<p>Begins when: The seller has calculated his inventory level.</p> <p>Continues with:</p> <table border="1"> <thead> <tr> <th>Step #</th><th>Actor</th><th>Activity Step</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Seller</td><td>Sends the Inventory Report message to the buyer.</td></tr> <tr> <td>2.</td><td>Buyer</td><td>Receives the Inventory Report message.</td></tr> </tbody> </table> <p>Ends when: buyer receives the Inventory Report message.</p>		Step #	Actor	Activity Step	1.	Seller	Sends the Inventory Report message to the buyer.	2.	Buyer	Receives the Inventory Report message.
Step #	Actor	Activity Step									
1.	Seller	Sends the Inventory Report message to the buyer.									
2.	Buyer	Receives the Inventory Report message.									
Alternative Scenario	There are no alternative scenarios.										
Business Transaction Rules	In the Inventory Report message the Buyer is the Inventory Report to Party and the Seller is the Inventory Reporting Party.										

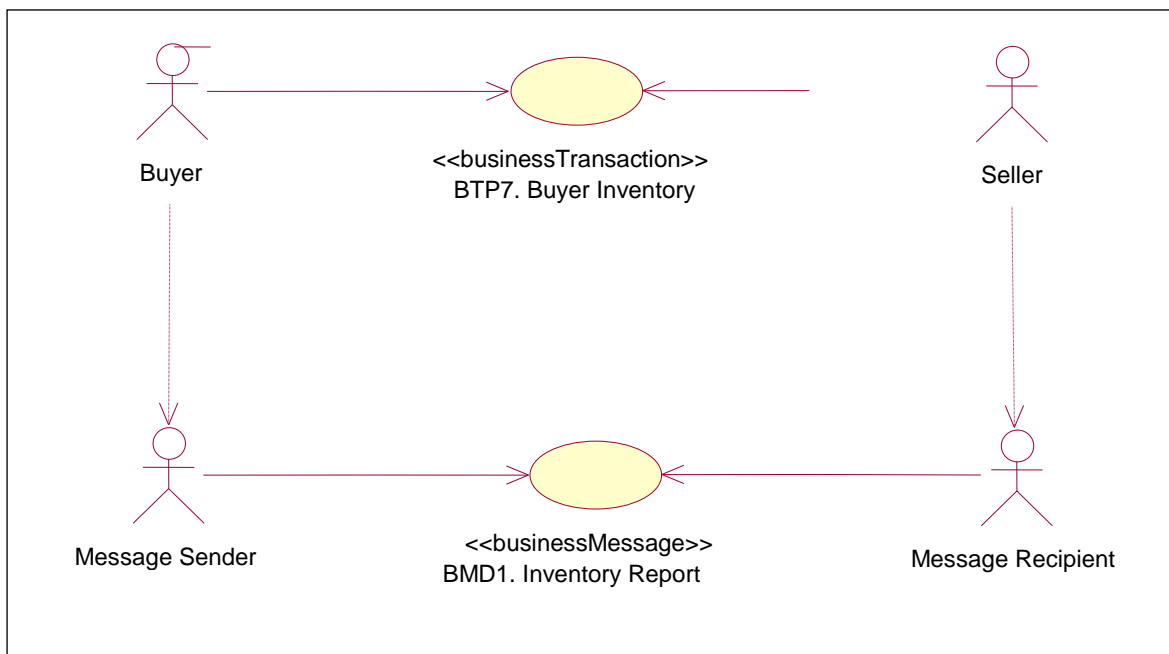
Activity Diagram(s)

Not Applicable

Sequence Diagram(s)

Not Applicable

3.4. Business Transaction - Buyer Inventory

Use Case Diagram

Use Case Description

Use Case ID	BTP7									
Use Case Name	Buyer Inventory									
Use Case Description	The Buyer Inventory transaction communicates at prescribed intervals the inventory levels of trade items in a specific location (plant, warehouse) to enable material requirements planning.									
Actors (Goal)	Seller: To receive the inventory level information of the buyer. Buyer: To communicate his inventory level information.									
Preconditions	Inventory Status: CALCULATED									
Post conditions	Inventory Status: COMMUNICATED									
Scenario	<p>Begins when: The buyer has calculated his inventory level.</p> <p>Continues with:</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1.</td><td>Buyer</td><td>Sends the Inventory Report message to the seller.</td></tr><tr><td>2.</td><td>Seller</td><td>Receives the Inventory Report message.</td></tr></table> <p>Ends when: seller receives the Inventory Report message.</p>	Step #	Actor	Activity Step	1.	Buyer	Sends the Inventory Report message to the seller.	2.	Seller	Receives the Inventory Report message.
Step #	Actor	Activity Step								
1.	Buyer	Sends the Inventory Report message to the seller.								
2.	Seller	Receives the Inventory Report message.								
Alternative Scenario	There are no alternative scenarios.									
Business Transaction Rules	In the Inventory message the Seller is the Inventory Report to Party and the Buyer is the Inventory Reporting Party.									

Activity Diagram(s)

Not Applicable

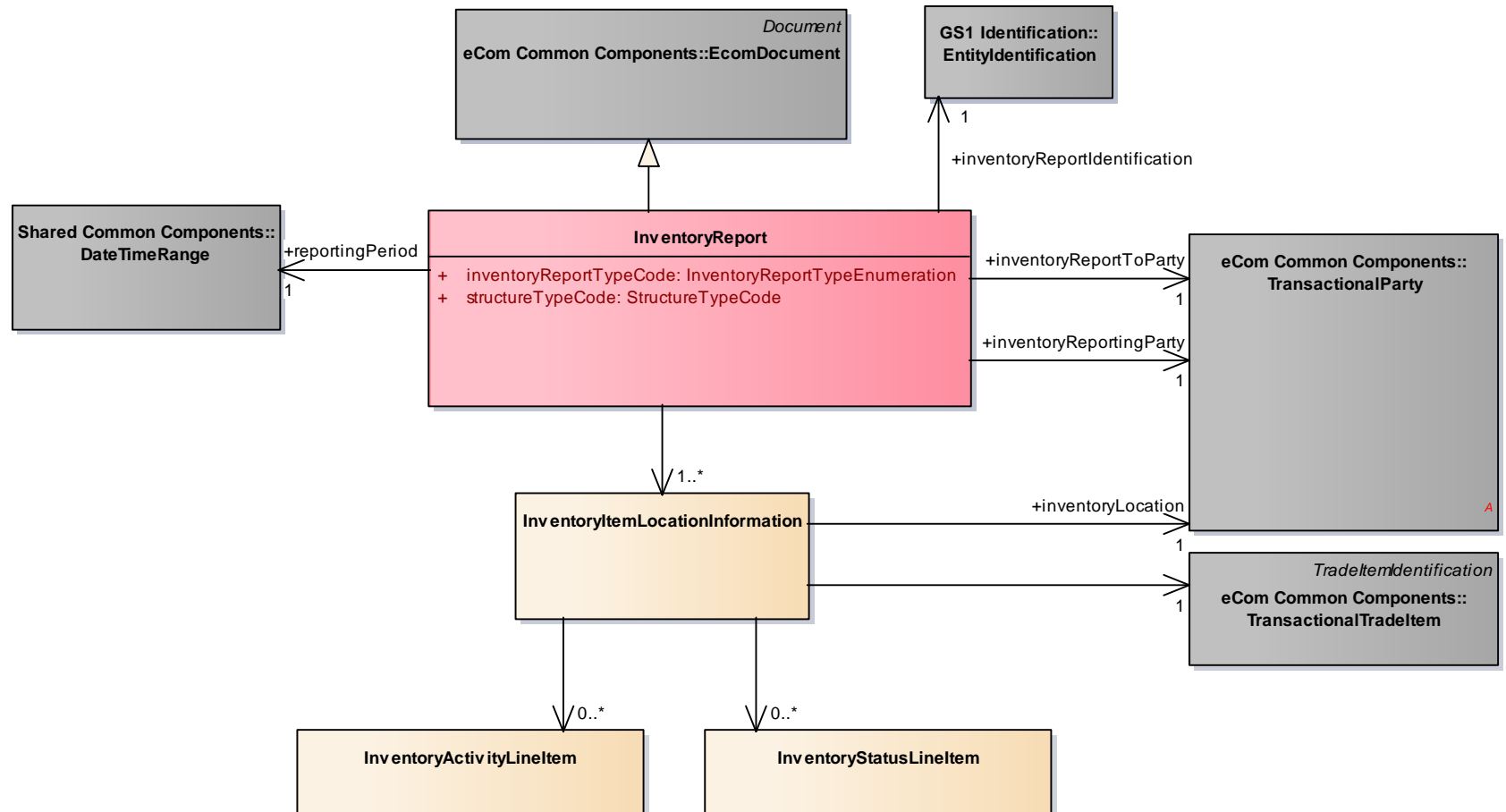
Sequence Diagram(s)

Not Applicable

4. Business Information View

4.1. Inventory Report (Message)

Class Diagram



GDD Report

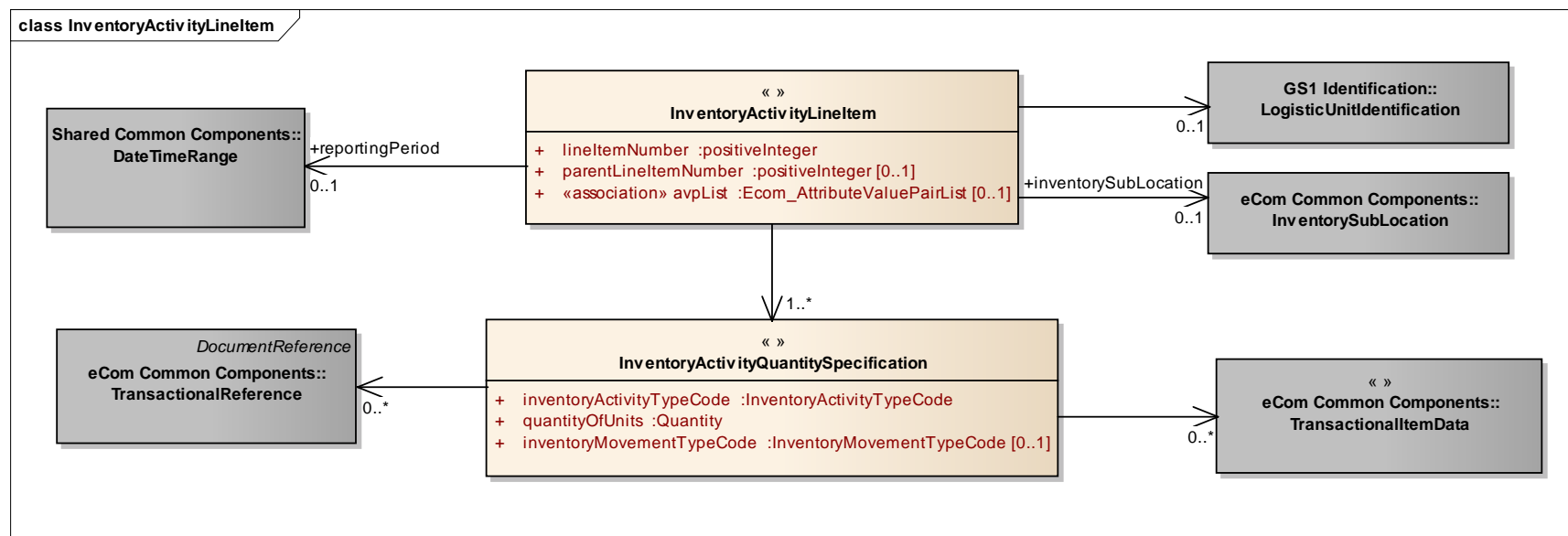
The content of the InventoryReport class, its structure and component definitions can be accessed in the Global Data Dictionary:
http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventoryReport

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
InventoryReport				The Inventory Report enables a party (the inventory reporting party) to provide information on inventory levels and inventory changes to another party (the inventory report to party).	renamed from InventoryActivityOrInventoryStatus
Association	inventoryReportIdentification	EntityIdentification	1..1	Unique identification of the inventory report, assigned by the inventory reporting party.	
Association		InventoryItemLocationInformation	1..*	Contains the inventory information for a given trade item and location.	
Association	inventoryReportingParty	TransactionalParty	1..1	The identification of the party reporting about the inventory.	
Association	inventoryReportToParty	TransactionalParty	1..1	The identification of the party to which the inventory is being reported.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	WR 14-000110
Association	reportingPeriod	DateTimeRange	1..1	The time period for which the inventory report provides information.	
Attribute	inventoryReportTypeCode	InventoryReportTypeEnumeration	1..1	Code specifying the type of inventory information being provided. E.g. inventory status information.	renamed from inventoryDocumentType and made enumeration instead of code.
Attribute	structureTypeCode	StructureTypeCode	1..1	Contains the type of grouping and sequence of the business document.	
InventoryItemLocationInformation				Contains the inventory information for a given trade item and location.	renamed from InventoryActivityOrInventoryStatus

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		InventoryStatusLineItem	0..*	Information specifying the inventory status of a specific trade item at a specific location at a specific point in time.	
Association		TransactionalTradeItem	1..1	Contains the identification of the item for which the inventory information is specified.	
Association	inventoryLocation	TransactionalParty	1..1	Identification of the physical place where the items are located.	
Association		InventoryActivityLineItem	0..*	Information specifying the inventory activity of a specific trade item at a specific location in a specific time period.	

4.2. Inventory Activity Line Item

Class Diagram



GDD Report

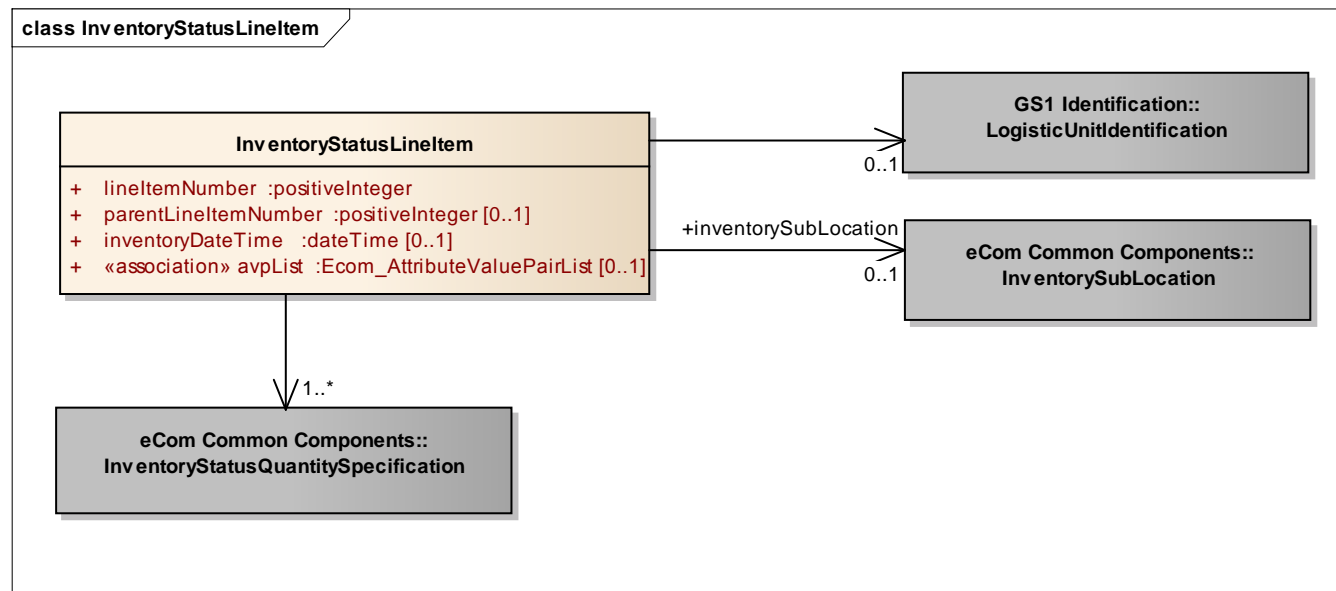
The content of the InventoryActivityLineItem class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventoryActivityLineItem

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
InventoryActivityLineItem				Information specifying the inventory activity of a specific trade item at a specific location in a specific time period.	
Association		LogisticUnitIdentification	0..1	Detailed identification of the logistic unit that contains the goods.	
Association	inventorySubLocation	InventorySubLocation	0..1	Detailed identification of the location at which the goods are stored.	
Association		InventoryActivityQuantitySpecification	1..*	Supplies the inventory activity item information with the quantity of units, inventory activity type, an optional inventory movement indicator, and an optional reference number.	
Association	reportingPeriod	DateTimeRange	0..1	The time period on which the inventory activity line item provides information.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Inventory Activity Line Item.	
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
InventoryActivityQuantitySpecification				Supplies the inventory activity item information with the quantity of units, inventory activity type, an optional inventory movement indicator, and an optional reference number.	
Association		TransactionalReference	0..*	Reference to a document or transaction related to the specified inventory activity.	

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
Association		TransactionalItemData	0..*	Detailed information on the item being reported on, such as best before date, batch number.	
Attribute	inventoryActivityType Code	InventoryActivityType Code	1..1	Code specifying the type of activity being reported for the inventory item.	
Attribute	quantityOfUnits	Quantity	1..1	The number of units and the unit of measure associated to the Inventory Item.	
Attribute	inventoryMovementTypeCode	InventoryMovementTypeCode	0..1	Code specifying whether the reported activity leads to an increase or decrease of the inventory quantity.	renamed from inventoryMovementIndicator

4.3. Inventory Status Line Item

Class Diagram



GDD Report

The content of the InventoryStatusLineItem class, its structure and component definitions can be accessed in the Global Data Dictionary: http://apps.gs1.org/GDD/bms/Version3_2/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:InventoryStatusLineItem

Content	Attribute / Role	Datatype / Secondary class	Multiplicity	Definition	Requirements
InventoryStatusLineItem				Information specifying the inventory status of a specific trade item at a specific location at a specific point in time.	
Association		InventoryStatusQuantitySpecification	1..*	Information about the stored goods per inventory status.	
Association		LogisticUnitIdentification	0..1	Detailed identification of the logistic unit that contains the goods.	
Association	inventorySubLocation	InventorySubLocation	0..1	Detailed identification of the location at which the goods are stored.	
Attribute	lineItemNumber	positiveInteger	1..1	Provides the line number associated to the Inventory Status Line Item.	
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	inventoryDateTime	dateTime	0..1	Date and time the inventory for this line item was assessed. If this is not provided the beginDateTime provided at the business document level represents the inventoryDateTime.	
Attribute	avpList	Ecom_AttributeValuePairList	0..1	Temporary attributes introduced between minor versions.	WR 14-000110



Note: Reference Shared Common Library Business Message (BMS) Release 3.2.0 and eCom Domain Common Library Business Message (BMS) Release 3.2.0 for all common information.

4.4. Code Lists



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

Class	Codelist	Referenced in
InventoryReport	InventoryReportTypeEnumeration	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventoryReportTypeEnumeration
InventoryReport	StructureTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:StructureTypeCode
InventoryActivityQuantitySpecification	InventoryActivityTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventoryActivityTypeCode
InventoryActivityQuantitySpecification	InventoryMovementTypeCode	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:InventoryMovementTypeCode

5. Business Message Examples

5.1. Example 1

Inventory Status Example

This is an example of an Inventory Status message. The message is sent out on 9th February at 11 AM. The message is identified with the unique identification number IS25001.

The message is sent by the manufacturer - Inventory Reporting Party (GLN 9999999000010) to the material supplier - Inventory Report To Party (GLN 7777777000009).

The inventory status information is for two inventory locations; X (GLN 9999999000027) and Y (GLN 9999999000034).

The inventory status information is for three items; A (GTIN 01111111111116), B (GTIN 02222222222222) and C (GTIN 03333333333338).

All inventories have been assessed at February 9th at 8 AM, except for the inventory of item C at location X, this has been assessed at 12 PM the previous day.

Location X

For item A the inventory status is:

- Total inventory 25 of which 15 available for sale and 10 expired.
- For item B the inventory status is:
- Total inventory 50, completely on hand, containing 30 units with production date 2004-11-24 and 20 units with production date 2004-11-17.
- For item C the inventory status is:
- Total inventory 325, of which 300 units are on hold and 25 units are damaged..

Location Y

For item A the inventory status is:

- Total inventory 160 of which 80 are located on pallet 388888880000000083 and 80 on pallet 3888888800000000113. Of the items on pallet 1 25 are available for sale, and 55 are expired. The items on pallet 2 are all available for sale.

Party, Item and Logistic Unit Information:

Line	InventoryLocation	TradeItem	LogisticUnit
1	99999990000027	011111111111116	n/a
2	99999990000027	022222222222222	n/a
3	99999990000027	033333333333338	n/a
4	99999990000034	033333333333338	388888880000000083
5	99999990000034	033333333333338	3888888800000000113

Message Example

Attribute	Value
InventoryReport	
inventoryReportTypeCode	INVENTORY_STATUS
structureTypeCode	LOCATION_BY_ITEM
Document	
creationDateTime	2005-02-09T11.00.00
documentStatusCode	ORIGINAL
DateTimeRange (+reportingPeriod)	
beginDate	2005-02-09
beginTime	08.00.00
EntityIdentification (+inventoryReportIdentification)	
entityIdentification	IS25001
PartyIdentification (+contentOwner)	
gln	99999990000010
TransactionalParty (+inventoryReportToParty)	
gln	77777770000009
TransactionalParty (+inventoryReportingParty)	
gln	99999990000010
InventoryItemLocationInformation *1	
TransactionalParty (+inventoryLocation)	
gln	99999990000027
TransactionalTradeItem	
gtin	011111111111116
InventoryStatusLineItem *1.1	
lineItemNumber	1
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	AVAILABLE_FOR_SALE

Attribute	Value
quantityOfUnits	15 CARTONS
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	EXPIRED
quantityOfUnits	10 CARTONS
InventoryItemLocationInformation *2	
TransactionalParty (+inventoryLocation)	
Gln	9999999000027
TransactionalTradelItem	
Gtin	02222222222222
InventoryStatusLineItem *2.1	
lineItemNumber	2
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	ON_HAND
quantityOfUnits	50 PCS
TransactionalItemData	
productionDate	2004-11-24
TransactionalItemData	
productionDate	2004-11-17
InventoryItemLocationInformation *3	
TransactionalParty (+inventoryLocation)	
gln	9999999000027
TransactionalTradelItem	
gtin	03333333333338
InventoryStatusLineItem *3.1	
lineItemNumber	3
inventoryDateTime	2005-02-09T00.00.00
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	ON_HOLD
quantityOfUnits	300 PCS
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	DAMAGED
quantityOfUnits	25 PCS
InventoryItemLocationInformation *4	
TransactionalParty (+inventoryLocation)	
gln	9999999000034
TransactionalTradelItem	
gtin	03333333333338

Attribute	Value
InventoryStatusLineItem *4.1	
lineItemNumber	4
LogisticUnitIdentification	
sscc	388888880000000083
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	AVAILABLE_FOR_SALE
quantityOfUnits (value, unitOfMeasure)	25, PCS
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	EXPIRED
quantityOfUnits	55, PCS
InventoryStatusLineItem *4.2	
- lineItemNumber	5
LogisticUnitIdentification	
sscc	3888888800000000113
InventoryStatusQuantitySpecification	
inventoryStatusTypeCode	AVAILABLE_FOR_SALE
quantityOfUnits	80, PCS

5.2. Example 2

Inventory Activity Example

The following is an example of an Inventory Activity message. The message is sent out on 9th of February at 11 AM. The message is unique identification number is IA25001.

The inventory information is sent by the retailer - Inventory Reporting Party (GLN 9999999000010) to the manufacturer - Inventory Report To Party (GLN 7777777000009).

The inventory activity information is for three inventory locations; X (GLN 9999999000027), Y (GLN 9999999000034) and Z (GLN 9999999000041).

The inventory status information is for four items; A (GTIN 01111111111116), B (GTIN 02222222222222), C (GTIN 03333333333338) and D (GTIN 04444444444444).

The activities reported all took place between 10 PM on February 7th and 10 PM February 8th, except for Item A at location Y, there the end time is 11 PM.

Item A

On location X the following activity is reported:

- Quarantine 15, Recall 10

On location Y the following activity is reported:

- Destroyed 10 (decrease of inventory)

Item B

On location X the following activity is reported:

- Distressed 20 KGM, originating from lotnumber 123456789

Item C

On location X the following activity is reported:

- Despatch discrepancy of 300 units, received 25 units

On location Y the following activity is reported:

- Physical count 250 units

Item D

On location Z the following activity is reported:

- Damaged in facility 250 units.

Party, Item and Logistic Unit Information:

Line	TradeItem	InventoryLocation
1	01111111111116	9999999000027
2	01111111111116	9999999000034
3	02222222222222	9999999000027
4	03333333333338	9999999000027
5	03333333333338	9999999000034
6	04444444444444	9999999000041

Message Example

Attribute	Value
InventoryReport	
inventoryReportTypeCode	INVENTORY_ACTIVITY
structureTypeCode	ITEM_BY_LOCATION
Document	
creationDateTime	2005-02-09 11.00
documentStatusCode	ORIGINAL
DateTimeRange (+reportingPeriod)	
beginDate	2005-02-07
beginTime	22.00
endDate	2005-02-08
endTime	22.00
EntityIdentification (+inventoryReportIdentification)	
entityIdentification	IA25001
PartyIdentification (+contentOwner)	
gln	9999999000010

Attribute	Value
TransactionalParty (+inventoryReportToParty)	
gln	7777777000009
TransactionalParty (+inventoryReportingParty)	
gln	9999999000010
InventoryItemLocationInformation *1	
TransactionalParty (+inventoryLocation)	
gln	9999999000027
TransactionalTradeltem	
gtin	01111111111116
InventoryActivityLinelltem *1.1	
linelltemNumber	1
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	QUARANTINE
quantityOfUnits	15 PCS
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	RECALL
quantityOfUnits	10 PCS
InventoryItemLocationInformation *2	
TransactionalParty (+inventoryLocation)	
gln	9999999000034
TransactionalTradeltem	
gtin	01111111111116
InventoryActivityLinelltem *2.1	
linelltemNumber	2
DateTimeRange (+reportingPeriod)	
beginDate	2005-02-07
beginTime	22.00.00
endDate	2005-02-08
endTime	23.00.00
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	DESTROYED
quantityOfUnits	10 PCS
inventoryMovementTypeCode	MOVING_PRODUCT_OUT_OF_INVENTORY
InventoryItemLocationInformation *3	
TransactionalParty (+inventoryLocation)	
gln	9999999000027
TransactionalTradeltem	

Attribute	Value
gtin	02222222222222
InventoryActivityLineItem *3.1	
lineItemNumber	3
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	DISTRESSED
quantityOfUnits	20 KGM
TransactionalItemData	
lotNumber	123456789
InventoryItemLocationInformation *4	
TransactionalParty (+inventoryLocation)	
gln	9999999000027
TransactionalTradeItem	
gtin	03333333333338
InventoryActivityLineItem *4.1	
lineItemNumber	4
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	DESPATCH_DISCREPANCY
quantityOfUnits	300, PCS
TransactionalReference	
transactionalReferenceTypeCode	ALN
EntityIdentification	
entityIdentification	3391
InventoryActivityQuantitySpecification	
inventoryActivityTypeCode	RECEIPTS
quantityOfUnits	25, PCS
inventoryMovementTypeCode	MOVING_PRODUCT_INTO_INVENTORY
TransactionalReference	
transactionalReferenceTypeCode	ALQ
EntityIdentification	
entityIdentification	HIGH TICKET ITEM 4433
InventoryItemLocationInformation *5	
TransactionalParty (+inventoryLocation)	
gln	9999999000034
TransactionalTradeItem	
gtin	03333333333338
InventoryActivityLineItem *5.1	
lineItemNumber	5

Attribute	Value
<i>InventoryActivityQuantitySpecification</i>	
inventoryActivityTypeCode	PHYSICAL_COUNT
quantityOfUnits	250, PCS
InventoryItemLocationInformation *6	
<i>TransactionalParty (+inventoryLocation)</i>	
Gln	9999999000041
<i>TransactionalTradeItem</i>	
gtin	04444444444444
InventoryActivityLineItem *6.1	
lineItemNumber	6
<i>InventoryActivityQuantitySpecification</i>	
inventoryActivityTypeCode	DAMAGED_IN_FACILITY
quantityOfUnits	250, PCS
inventoryMovementTypeCode	MOVING_PRODUCT_OUT_OF_INVENTORY

6. Implementation Considerations

6.1. User Guide

The Functional User Guide contains more information about the structure and content of the message:
http://www.gs1.org/docs/ecom/xml/3/3.2/eCom-Trade_messages.html#InventoryReport

6.2. Message Specific Considerations

Not Applicable

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	BMS Version	Associated CR Number
Updated BMS to Major release 3.0.0 Updated BMS to reflect changes in modelling methodology. Renamed from “Inventory Activity or Inventory Status”	Issue 1.0.0	N/A
Public Review: Removed INVENTORY_STATUS_AND_ACTIVITY from InventoryReportTypeEnum	Issue 1.0.0 (21-nov-2011)	N/A
For BMS Publication: <ul style="list-style-type: none"> Updated date of document Clean-up of Document Change History Removed year from copyright statement in footer Corrected spelling of Section 11 Architectural Principles Updated architectural principles section to correct fields. 	Issue 1.0.0	N/A

7.2. BMS Release 3.1

Change		Associated CR Number
<div> class InventoryActivityLineItem - Maintenance View <div> <div>« »</div> <div>InventoryActivityLineItem</div> <div>+ lineItemNumber: positiveInteger</div> <div> maintenance Change: (Verified) 3.1 changed associated class of +inventorySubLocation (BRAD-WIM:IR-307) </div> </div> </div> <div> class InventoryStatusLineItem - maintenance view <div> <div>InventoryStatusLineItem</div> <div>+ lineItemNumber: positiveInteger</div> <div>+ inventoryDateTime : dateTime [0..1]</div> <div> maintenance Change: (Verified) 3.1 changed associated class for +inventorySubLocation (BRAD-WIM:IR101) </div> </div> </div>		[BRAD WIM] IR101, IR307
Corrected the GLN, GTIN and SSCC numbers in the examples.		

7.3. BMS Release 3.2

Change	Associated WR
<p>Added Attribute Value Pair at the root, line item and sub line item levels</p> <div><div>class InventoryReport - maintenance view</div><div><div>InventoryReport</div><div>+ inventoryReportTypeCode: InventoryReportTypeEnumeration + structureTypeCode: StructureTypeCode</div><div><div>maintenance</div><div>Change: (Verified) 3.2 changed generalisation from Document to eComDocument class to include AVP (WR 14-110)</div></div></div></div>	14-000110
<ul style="list-style-type: none">Added a reference to parent line number to all Lineltem classes, to support hierarchical items. (WRs 14-021 & 14-044)Added Attribute Value Pair at the root, line item and sub line item levels (WR 14-110) <div><div>class InventoryActivityLineltem - Maintenance View</div><div><div>« » InventoryActiv ityLineltem</div><div>+ lineltemNumber :positiveInteger + parentLineltemNumber :positiveInteger [0..1] + «association» avpList :Ecom_AttributeValuePairList [0..1]</div><div><div>maintenance</div><div>Change: (Complete) 3.1 changed associated class of +inventorySubLocation (BRAD-WIM:IR-307; WR 09-189) Change: (Verified) 3.2 added +avpList (WR 14-110) Change: (Verified) 3.2 added +parentLineltemNumber (WR 14-021 & 14-044)</div></div></div></div>	14-000021 14-000044 14-000110
<ul style="list-style-type: none">Added a reference to parent line number to all Lineltem classes, to support hierarchical items. (WRs 14-021 & 14-044)Added Attribute Value Pair at the root, line item and sub line item levels (WR 14-110) <div><div>class InventoryStatusLineltem - maintenance view</div><div><div>InventoryStatusLineltem</div><div>+ lineltemNumber :positiveInteger + parentLineltemNumber :positiveInteger [0..1] + inventoryDateTime :dateTime [0..1] + «association» avpList :Ecom_AttributeValuePairList [0..1]</div><div><div>maintenance</div><div>Change: (Complete) 3.1 changed associated class for +inventorySubLocation (BRAD-WIM:IR101; WR 09-189) Change: (Verified) 3.2 added +avpList (WR 14-110) Change: (Verified) 3.2 added +parentLineltemNumber (WR 14-021 & 14-044)</div></div></div></div>	14-000021 14-000044 14-000110

8. Appendices

Not Applicable

9. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

9.1.1. Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
Co-chair	Schmidt, Tom Eric	August Storck KG
Member	Bemrose, Jonathan	R&R Ice Cream
Member	Bodemer, Petra	dm-drogerie markt GmbH + Co. KG
Member	Boikanyo, Rebhone	GS1 South Africa / Consumer Goods Council of South Africa
Member	Canada, ON	M3B 3L1
Member	Carlson, Jim	General Mills, Inc.
Member	Chresta, Richard	GS1 Switzerland
Member	Cook, Don	Wal-Mart Stores, Inc.
Member	Cox, Marc	Philips Electronics N.V.
Member	Darnell, David	Systrends
Member	De Flou, Nele	GS1 Belgium & Luxembourg
Member	Dicks, Arne	GS1 Germany
Member	Duvinger, Karina	GS1 Sweden
Member	Foerderer, Klaus	GS1 Germany
Member	Gathmann, Stefan	GS1 Ireland
Member	Grangard, Anders	GS1 Global Office
Member	Harpell, Eileen	GS1 Community Room Staff
Member	Herregodts, Kurt	GS1 Belgium & Luxembourg
Member	Kempkes, Fred	Unilever N.V.
Member	Kernan, Brendan	GS1 Ireland
Member	Kidd, Robin	Nestle
Member	Krid, Anne-Claire	GS1 France
Member	Lanoue, Tom	General Mills, Inc.
Member	Laur, Rita	GS1 Canada
Member	Lenman, Mia	GS1 Sweden
Member	Lerch, Hanjoerg	METRO Group

Function	Name	Company / organisation
Member	Moberg, Dale	Axway
Member	Montes de Oca, Alejandra	GS1 Mexico
Member	Ng, Ella	GS1 Australia
Member	Peelen, Esther	GS1 Netherlands
Member	Pelekies, Andreas	GS1 Germany
Member	Perrier, Patricia	GS1 France
Member	Przybilla, Christian	GS1 Germany
Member	Pujol, Xavier	GS1 Spain
Member	Racek, Greg	Wal-Mart Stores, Inc.
Member	Repetto, Mirko	GS1 Italy
Member	Robba, Steven	1WorldSync Holdings, Inc.
Member	Rosell, Pere	GS1 Spain
Member	Rosenberg, Steven	GS1 US
Member	Schmid, Sue	GS1 Australia
Member	Schneider, Christian	GS1 Switzerland
Member	Sehorz, Eugen	GS1 Austria
Member	Sharma, Vishal	General Mills, Inc.
Member	Shimazaki, Ayako	GS1 Japan
Member	Sion, Emilie	GS1 France
Member	Souza, Nadia	GS1 Brasil
Member	Strand, Roman	GS1 Germany
Member	Tan, Milton	GS1 Malaysia
Member	Tompsett, Simon	Waitrose
Member	Trelle, Ute	1WorldSync Holdings, Inc.
Member	Tse, Steve	GS1 Hong Kong
Member	Tyson, Betty	Knouse Foods Cooperative, Inc
Member	Van den Bergh, Senne	GS1 Belgium & Luxembourg
Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
Member	Veldhuis, Saskia	Procter & Gamble Co.
Member	Welch, Shan	GS1 UK
Member	Westerkamp, Jan	GS1 Netherlands
Member	Wilson, Mary	GS1 US
Member	Windsperger, Bekki	Best Buy Co., Inc.
Member	Yang, Shaopeng	GS1 China
Member	Yusdiar, Dani	GS1 Indonesia
Member	Zwanziger, Greg	SUPERVALU

9.1.2. Development Team Members

Function	Name	Organisation
GSMP Process Lead	Jean-Luc Champion	GS1 Global Office
Standards Content Lead	Coen Janssen, Ewa Iwicka	GS1 Global Office
Technical Development Lead	Ewa Iwicka	GS1 Global Office
Peer Review	Eric Kauz	GS1 Global Office