



The Global Language of Business

# Warehouse Outbound Instruction and Notification Business Message Standard (BMS)

*Release 3.4.1, Draft, Nov 2019*



## Document Summary

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## Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
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## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
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01-May-2013	BMS 3.1 – Issue 1	Coen Janssen	BMS Release 3.1	See summary of changes
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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

#### Warehousing Outbound Instruction Message Definition

The Warehousing Outbound Instruction message enables a Logistic Services Client (LSC) to inform his Logistic Services Provider (LSP) that goods need to be shipped.

#### Warehousing Outbound Notification Message Definition

The Warehousing Outbound Notification message enables a Logistic Services Provider (LSP) to inform his Logistic Services Client (LSC) on the status of goods shipped on behalf of the client.

### Principles

These messages support the warehouse outbound process.

## 1.2 References

[LIM] GS1 Logistics Interoperability Model, 1.0, GS1 2007

[BRAD\_WIO] BRAD Warehousing Inbound and Outbound Processes, 1.0, GS1 2012

[BMS\_Shared] BMS Shared Common Library, 3.4, GS1 2016

[BMS\_eCom] BMS eCom Common Library, 3.4, GS1 2016

[BMS\_Warehousing] BMS Warehousing Common Library, 3.4, GS1 2016

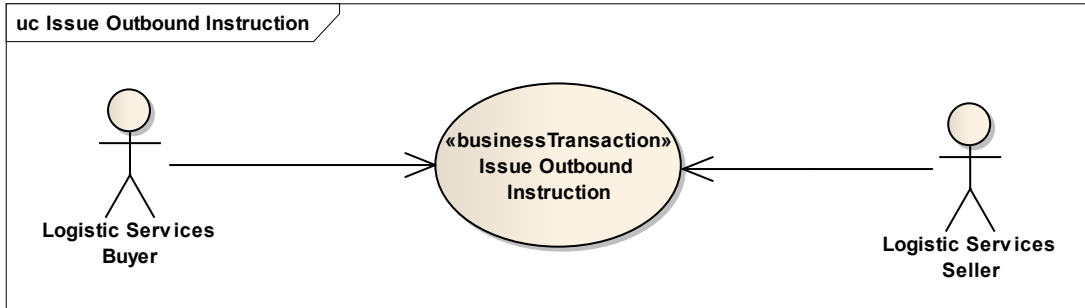
# 2 Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Warehousing – Outbound Operations
System Capabilities	GS1 System
Official Constraints	None

### 3 Business Transaction View

#### 3.1 Business Transaction – Issue Outbound Instruction

##### Use case diagram



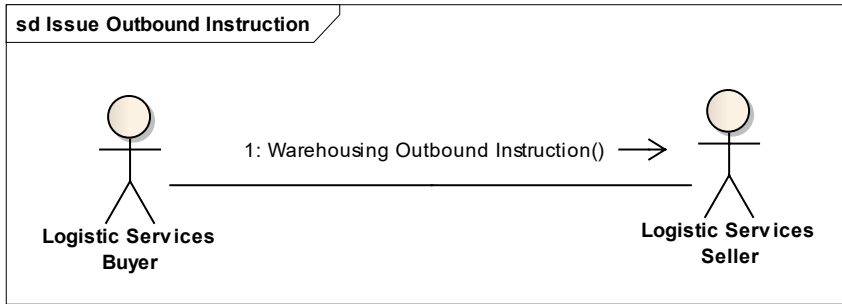
##### Use case description

<b>Use Case Name</b>	Issue Warehousing Outbound Instruction
<b>Use Case Description</b>	The Logistic Services Buyer (LSB) informs the Logistic Services Seller (LSS) that a shipment needs to be prepared.
<b>Actors (Goal)</b>	Logistic Services Buyer (LSB) Logistic Services Seller (LSS)
<b>Performance Goals</b>	Not applicable
<b>Preconditions</b>	Item master data of the goods to be shipped have been communicated to the Logistic Services Seller.
<b>Post conditions</b>	The Logistic Services Seller has been informed on the goods to be shipped.
<b>Main Scenario</b>	<ul style="list-style-type: none"> <li>■ LSB generates the Warehousing Outbound Instruction from his (enterprise resource planning) system.</li> <li>■ LSB sends the Warehousing Outbound Instruction to the LSS.</li> <li>■ LSS receives the Warehousing Outbound Instruction.</li> <li>■ LSS processes the Warehousing Outbound Instruction in his (warehouse management) system.</li> </ul>
<b>Alternative Scenario(s)</b>	Not applicable
<b>Related Requirements</b>	Not applicable
<b>Related Rules</b>	Not applicable

##### Activity diagram

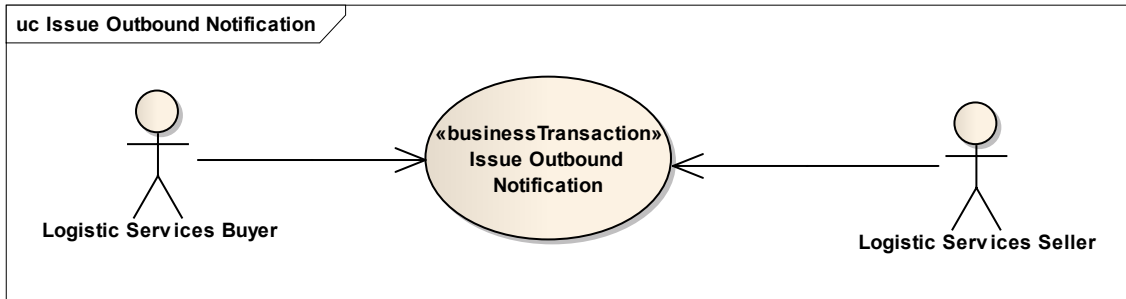
Not applicable

**Communication diagram**



**3.2 Business Transaction – Issue Outbound Notification**

**Use case diagram**



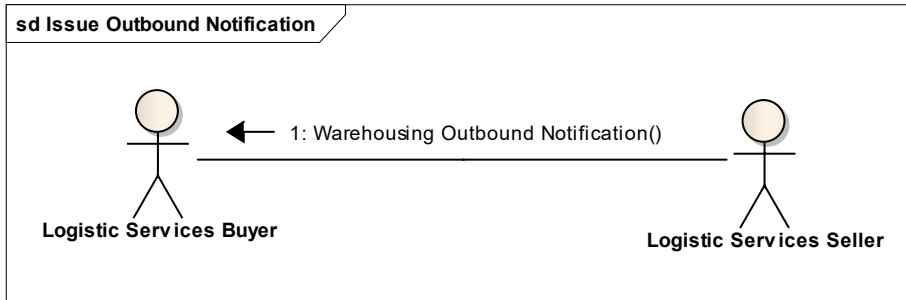
**Use case description**

<b>Use Case Name</b>	Issue Warehousing Outbound Notification
<b>Use Case Description</b>	The Logistic Services Seller (LSS) informs the Logistic Services Buyer (LSB) on the status of an outbound shipment that will be / has been prepared.
<b>Actors (Goal)</b>	Logistic Services Buyer (LSB) Logistic Services Seller (LSS)
<b>Performance Goals</b>	Not applicable
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>The Logistic Services Seller has been informed on the goods to be shipped.</li> </ul>
<b>Post conditions</b>	The Logistic Services Buyer has been informed on the status of the outbound shipment.
<b>Main Scenario</b>	<ul style="list-style-type: none"> <li>LSS generates the Warehousing Outbound Notification from his (warehouse management) system.</li> <li>LSS sends the Warehousing Outbound Notification to the LSB.</li> <li>LSB receives the Warehousing Outbound Notification.</li> <li>LSB processes the Warehousing Outbound Notification in his (enterprise resource planning) system.</li> </ul>
<b>Alternative Scenario(s)</b>	Not applicable
<b>Related Requirements</b>	Not applicable
<b>Related Rules</b>	Not applicable

**Activity diagram**

Not applicable

### Communication diagram

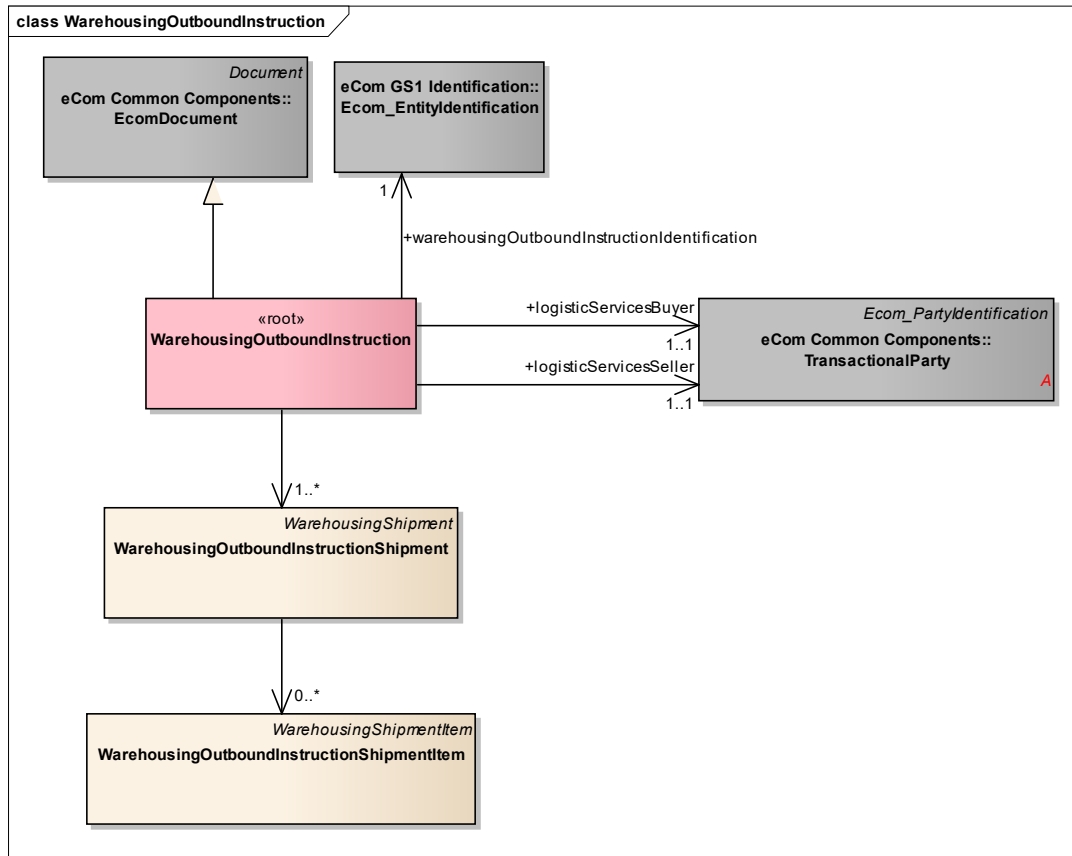




## 4 Business Information View

### 4.1 Warehousing Outbound Instruction

#### Class diagram



**GDD report**

The content of the WarehousingOutboundInstruction 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:WarehousingOutboundInstruction](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundInstruction)

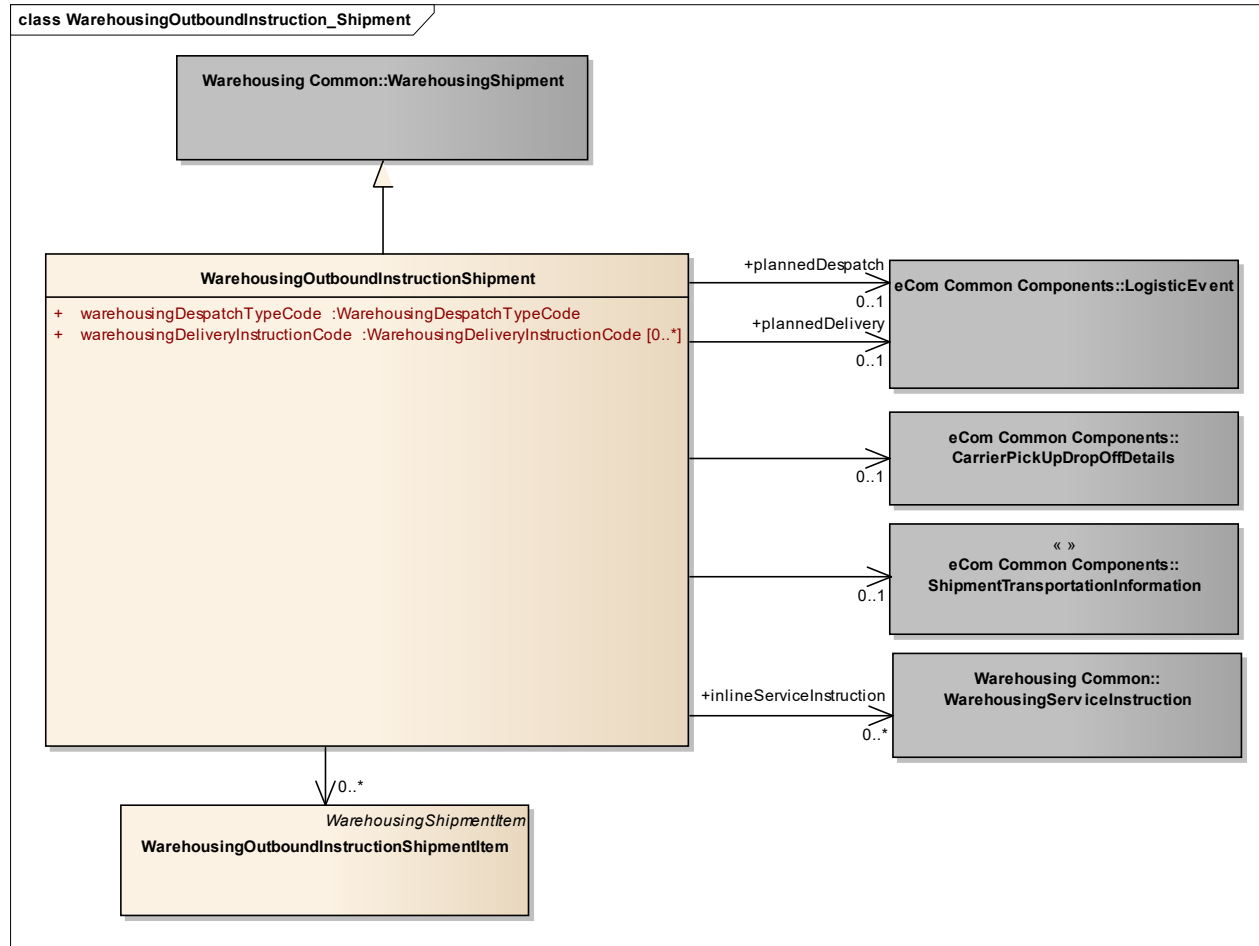
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundInstruction				Message that supports the warehouse outbound process, and enables a Logistic Services Client (LSC) to inform his Logistic Services Provider (LSP) that goods need to be shipped.	
Association		WarehousingOutboundInstructionShipment	1..*	Information on the shipments that need to be prepared by the logistics services seller.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	[brad-whiop:insdes-1]
Association	logisticServices Seller	TransactionalParty	1..1	A party that provides logistics services to another party.	[brad-whiop:insdes-3]
Association	warehousingOutboundInstructionIdentification	Ecom_EntityIdentification	1..1	The identification of the warehousing outbound instruction document.	[brad-whiop:insdes-1] WR 15-000314
Association	logisticServices Buyer	TransactionalParty	1..1	A party that purchases logistics services from another party.	[brad-whiop:insdes-2]



**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.

## 4.2 Warehousing Outbound Instruction – Shipment

### Class Diagram



**GDD Report**

The content of the WarehousingOutboundInstructionShipment 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:WarehousingOutboundInstructionShipment](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundInstructionShipment)

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundInstructionShipment				A shipment is an identifiable collection of one or more Trade Items available to be transported together from the shipper (Original Consignor/Shipper), to the receiver (Final/Ultimate Consignee).	[brad-whiop:insdes-4]
Association	plannedDelivery	LogisticEvent	0..1	Details on the date and time the goods need to be delivered.	[brad-whiop:insdes-4.1]
Association		CarrierPickUpDropOffDetails	0..1	Details on the carrier that will deliver the goods.	[brad-whiop:insdes-4.6]
Generalization		WarehousingShipment			
Association	plannedDespatch	LogisticEvent	0..1	Details on the date and time the goods need to be despatched.	[brad-whiop:insdes-4.2]
Association	inlineServiceInstruction	WarehousingServiceInstruction	0..*	Details on one or more services to be performed by the logistic services seller during outbound processing.	[brad-whiop:insdes-4.7]
Association		WarehousingOutboundInstructionShipmentItem	0..*	Details on the items that need to be shipped.	
Association		ShipmentTransportationInformation	0..1	Instructions on the way the shipment needs to be transported.	[brad-whiop:insdes-4.5]
Attribute	warehousingDespatchTypeCode	WarehousingDespatchTypeCode	1..1	Code specifying the type of despatch for the shipment, for example picked from stock or cross-docked.	[brad-whiop:insdes-4.3]

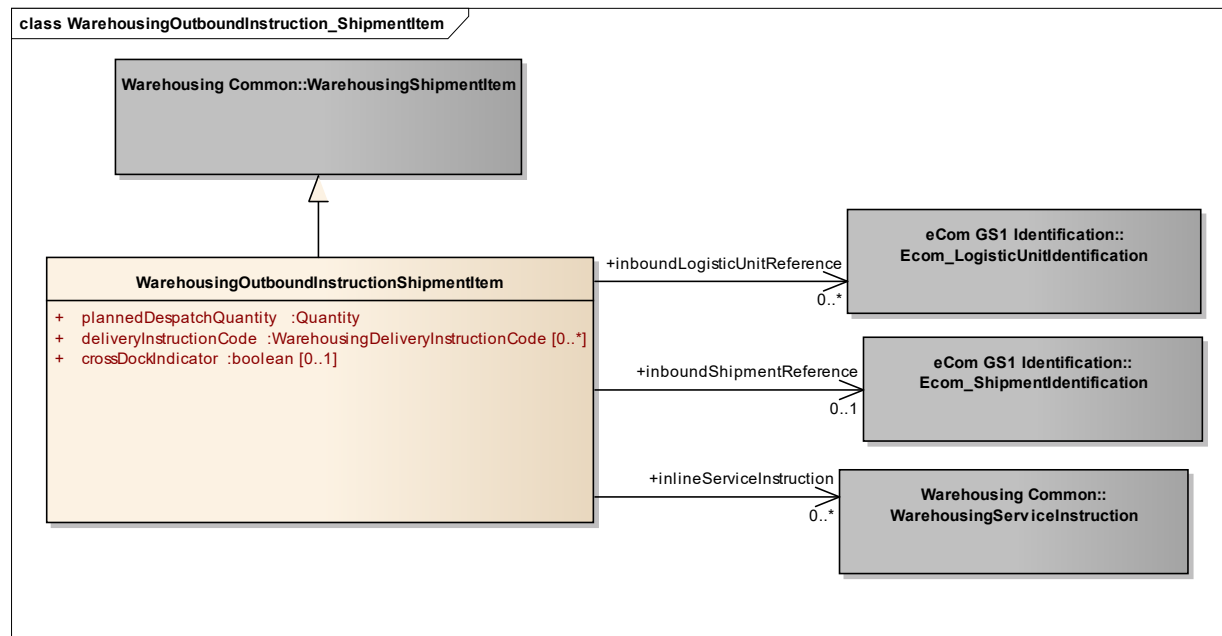
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	warehousingDeliveryInstructionCode	WarehousingDeliveryInstructionCode	0..*	Code specifying special order / delivery conditions.	[bradwhiop:insdes-4.4] perhaps reuse some values of OrderInstructionCode



**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.

### 4.3 Warehousing Outbound Instruction – Shipment Item

#### Class Diagram



**GDD Report**

The content of the WarehousingOutboundInstructionShipmentItem 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:WarehousingOutboundInstructionShipmentItem](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundInstructionShipmentItem)

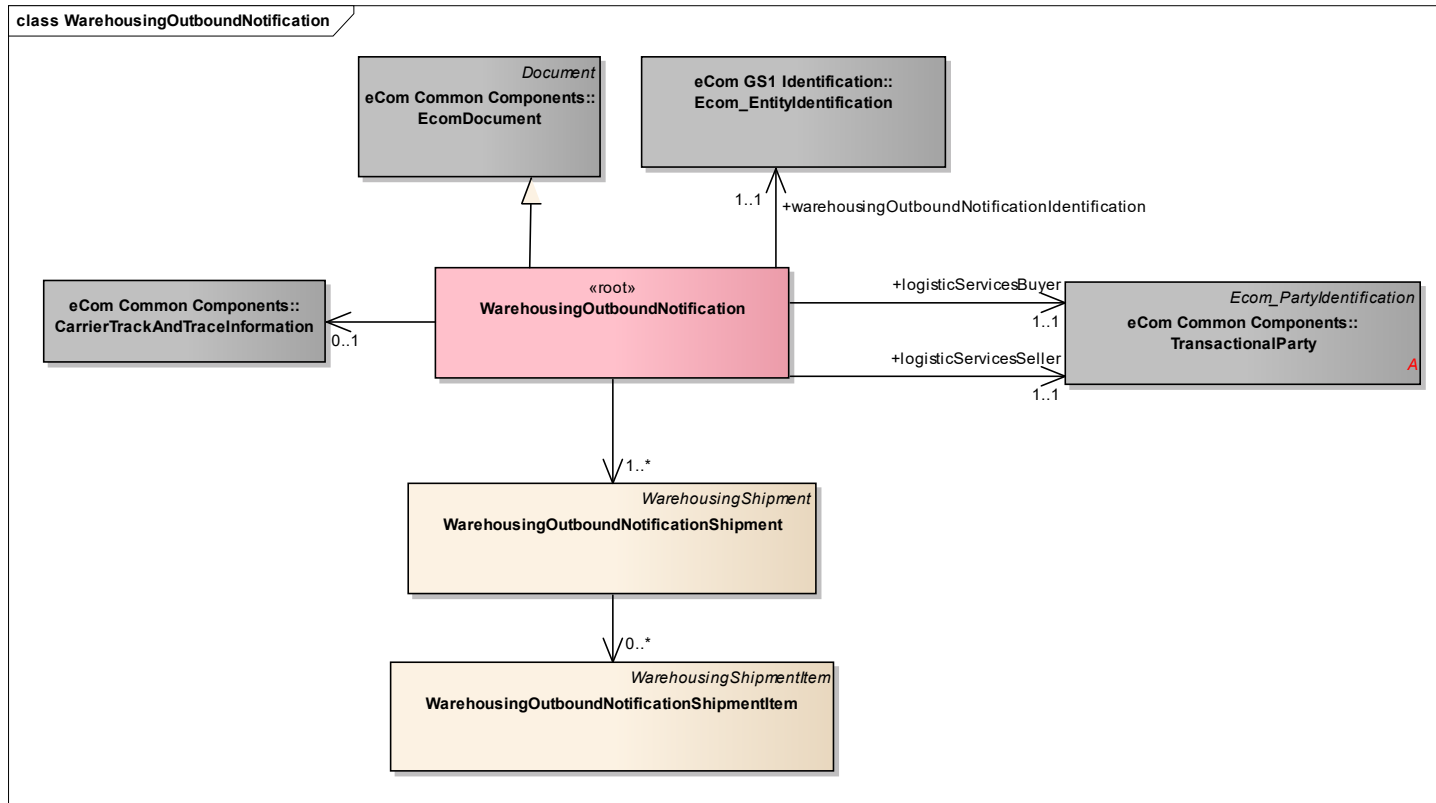
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundInstructionShipmentItem				A shipment item is collection of trade items and related logistic units that can each be identified (uniquely) within a shipment.	[brad-whiop:insdes-5]
Association	inboundShipmentReference	Ecom_ShipmentIdentification	0..1	Reference to the cross-docked receipt from which the item has to be taken.	[brad-whiop:insdes-5.4] WR 15-000314
Generalization		WarehousingShipmentItem			
Association	inboundLogisticUnitReference	Ecom_LogisticUnitIdentification	0..*	Reference to the cross-docked logistic unit from which the item has to be taken.	[brad-whiop:insdes-5.5] WR 15-000314
Association	inlineServiceInstruction	WarehousingServiceInstruction	0..*	Instruction specifying a service to be carried out by the logistic services seller during the inbound process.	[brad-whiop:insdes-5.6]
Attribute	plannedDespatchQuantity	Quantity	1..1	The quantity that is ordered / planned to be despatched.	[brad-whiop:insdes-5.1]
Attribute	deliveryInstructionCode	WarehousingDeliveryInstructionCode	0..*	Code specifying special order / delivery conditions.	[brad-whiop:insdes-5.2] perhaps reuse some values of OrderInstructionCode
Attribute	crossDockIndicator	boolean	0..1	Indication whether or not the shipped item needs to be taken from a cross-docked receipt instead of from stock.	



**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.

## 4.4 Warehousing Outbound Notification

### Class Diagram



### GDD Report

The content of the WarehousingOutboundNotification 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:WarehousingOutboundNotification](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundNotification)



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundNotification				Message that supports the warehouse outbound process, and enables a Logistic Services Provider (LSP) to inform his Logistic Services Client (LSC) on the status of goods shipped on behalf of the client.	
Generalization		EcomDocument		Basic information about the content of the message including version number, creation date and time.	[brad-whiop:obsta-1]
Association		WarehousingOutboundNotificationShipment	1..*	Status information on the shipments that have been shipped or are expected to be shipped.	
Association	logisticServices Seller	TransactionalParty	1..1	A party that provides logistics services to another party.	[brad-whiop:obsta-3]
Association	logisticServices Buyer	TransactionalParty	1..1	A party that purchases logistics services from another party.	[brad-whiop:obsta-2]
Association	warehousingOutboundNotificationIdentification	Ecom_EntityIdentification	1..1	The identification of the warehousing outbound notification document.	[brad-whiop:obsta-1] WR 15-000314
Association		CarrierTrackAndTraceInformation	0..1	Tracking and tracing information about the package, provided by the carrier.	WR 15-000314

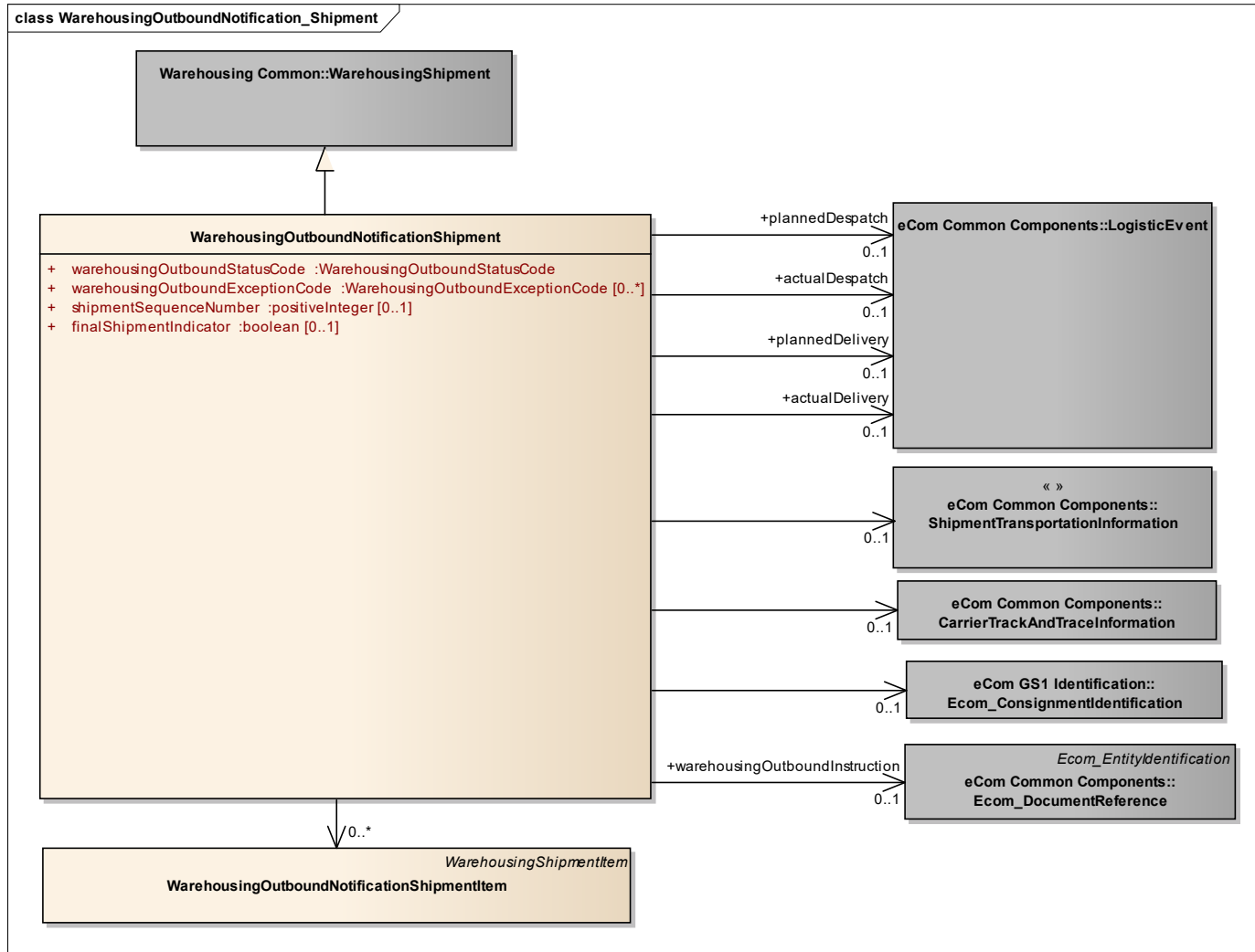


**Note:** Reference Shared Common Library Business Message (BMS) Release 3.4 and eCom Domain Common Library Business Message (BMS) Release 3.4 for all common information.



## 4.5 Warehousing Outbound Notification – Shipment

### Class Diagram





**GDD Report**

The content of the WarehousingOutboundNotificationShipment 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:WarehousingOutboundNotificationShipment](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundNotificationShipment)

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundNotificationShipment				A shipment is an identifiable collection of one or more Trade Items available to be transported together from the shipper (Original Consignor/Shipper), to the receiver (Final/Ultimate Consignee).	[brad-whiop:obsta-4]
Association	actualDelivery	LogisticEvent	0..1	Details on the date and time the goods were actually delivered.	[brad-whiop:obsta-4.7]
Association		Ecom_ConsignmentIdentification	0..1	Identification of the consignment that contains the shipment.	[brad-whiop:obsta-4.10.2] WR 15-000314
Generalization		WarehousingShipment			
Association	plannedDelivery	LogisticEvent	0..1	Details on the date and time the goods were planned to be delivered.	[brad-whiop:obsta-4.6]
Association		CarrierTrackAndTraceInformation	0..1	Package tracking and tracing references provided by the Carrier.	
Association	warehousingOutboundInstruction	DocumentReference	0..1	A reference to the related outbound instruction message.	
Association		WarehousingOutboundNotificationShipmentItem	0..*	Details on the items contained in the shipment.	
Association	plannedDespatch	LogisticEvent	0..1	Details on the date and time the goods were planned to be despatched.	[brad-whiop:obsta-4.4]
Association	actualDespatch	LogisticEvent	0..1	Details on the date and time the goods were actually despatched.	[brad-whiop:obsta-4.5]
Association		ShipmentTransportationInformation	0..1	Information on the way the shipment was transported.	[brad-whiop:obsta-4.10.1]



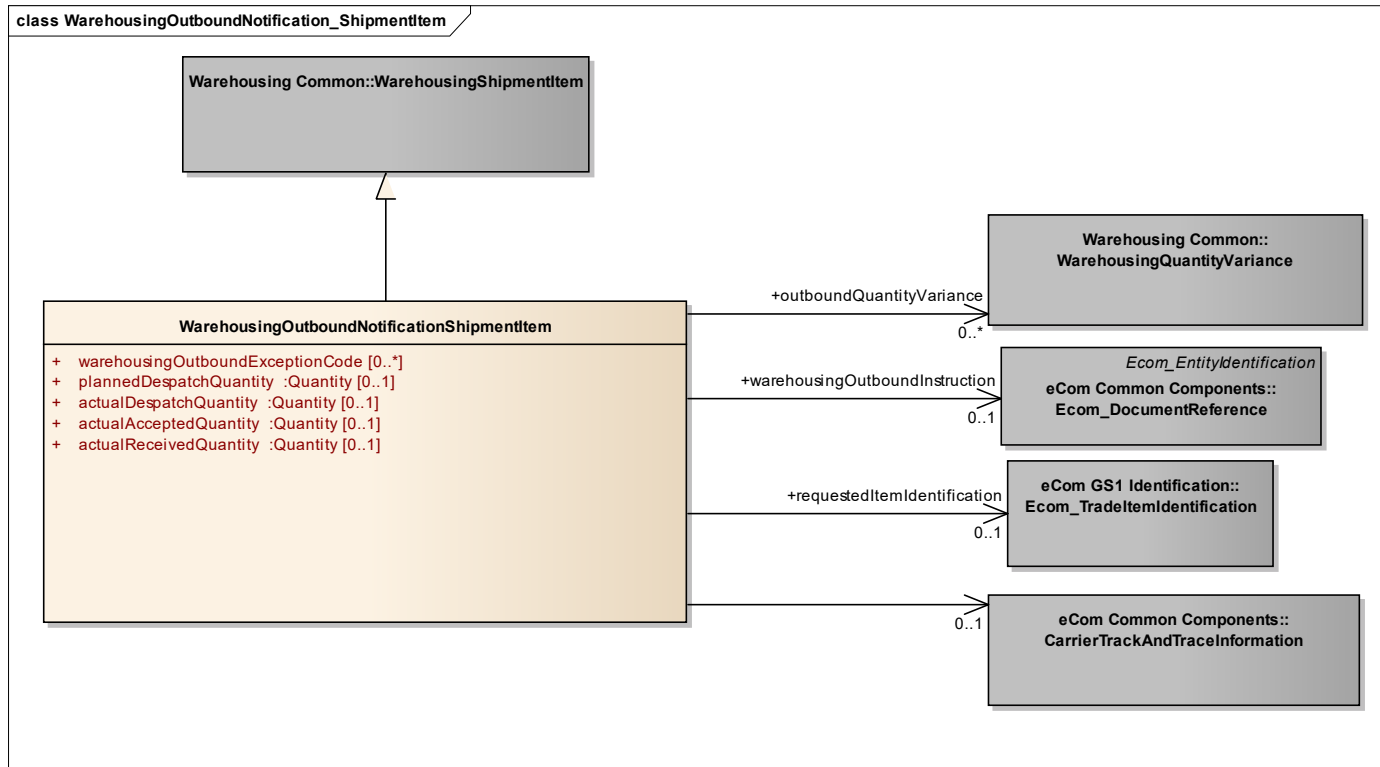
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	warehousingOutboundStatusCode	WarehousingOutboundStatusCode	1..1	Code specifying the status of the outbound delivery.	[brad_wio:ibsta-4.2]
Attribute	warehousingOutboundExceptionCode	WarehousingOutboundExceptionCode	0..*	Codes specifying an exception that occurred during the outbound process.	[brad_wio:ibsta-4.3]
Attribute	shipmentSequenceNumber	positiveInteger	0..1	A number indicating the sequence in which shipments related to the same delivery were despatched.	
Attribute	finalShipmentIndicator	boolean	0..1	Indicator specifying if a shipment, being one of multiple shipments for the same delivery, is the final shipment. See also shipmentSequenceNumber.	



**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.

## 4.6 Warehousing Outbound Notification – Shipment Item

### Class Diagram



### GDD Report

The content of the WarehousingOutboundNotificationShipmentItem 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:WarehousingOutboundNotificationShipmentItem](http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:WarehousingOutboundNotificationShipmentItem)



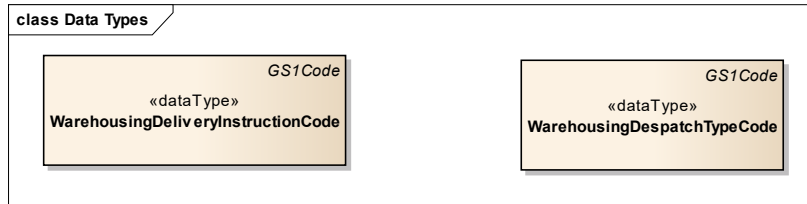
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutbound NotificationShipmentItem				A shipment item is collection of trade items and related logistic units that can each be identified (uniquely) within a shipment.	[brad-whiop:obsta-5]
Association		CarrierTrackAndTraceInformation	0..1	Package tracking and tracing references provided by the Carrier.	WR 15-000314
Association	requestedItemIdentification	Ecom_TradeItemIdentification	0..1	The identification of the trade item that was requested to be delivered, but was replaced with another trade item.	
Generalization		WarehousingShipmentItem			
Association	warehousingOutboundInstruction	Ecom_DocumentReference	0..1	A reference to the related line item in the outbound instruction.	WR 15-000314
Association	outboundQuantityVariance	WarehousingQuantityVariance	0..*	Quantity and reason of a shortage or surplus occurring in a warehousing process.	[brad-whiop:obsta-5.7]
Attribute	warehousingOutboundExceptionCode		0..*	Codes specifying an exception that occurred during the outbound process.	[brad_wio:obsta-5.2]
Attribute	plannedDespatchQuantity	Quantity	0..1	The number of items that were planned to be despatched.	[brad_wio:obsta-5.3]
Attribute	actualDespatchQuantity	Quantity	0..1	The number of items that were despatched.	[brad_wio:obsta-5.4]
Attribute	actualAcceptedQuantity	Quantity	0..1	The number of items that were accepted by the receiver.	[brad_wio:obsta-5.5]
Attribute	actualReceivedQuantity	Quantity	0..1	The number of items that were received by the receiver.	[brad_wio:obsta-5.6]



**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.

## 4.7 Warehousing Outbound Instruction - Data Types

### Class Diagram



### GDD Report

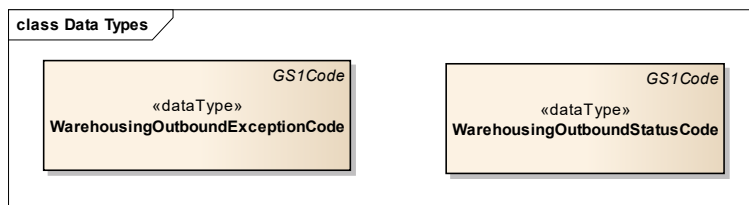
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
<b>WarehousingDeliveryInstructionCode</b>					
Generalization		GS1Code			
<b>WarehousingDespatchTypeCode</b>					
Generalization		GS1Code			



**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.

## 4.8 Warehousing Outbound Notification - Data Types

### Class Diagram



### GDD Report

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundExceptionCode					
Generalization		GS1Code			



Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
WarehousingOutboundStatusCode					
Generalization		GS1Code			



**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.

## 4.9 Enumerations (message specific)

Not applicable

## 4.10 Code Lists

Class	Codelist	GDD Link
WarehousingOutboundInstructionShipment, WarehousingOutboundInstructionShipmentItem	WarehousingDeliveryInstructionCode	<a href="http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingDeliveryInstructionCode">http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingDeliveryInstructionCode</a>
WarehousingOutboundInstructionShipment	WarehousingDespatchTypeCode	<a href="http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingDespatchTypeCode">http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingDespatchTypeCode</a>
WarehousingOutboundNotificationShipment	WarehousingOutboundExceptionCode	<a href="http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingOutboundExceptionCode">http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingOutboundExceptionCode</a>
WarehousingOutboundNotificationShipment	WarehousingOutboundStatusCode	<a href="http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingOutboundStatusCode">http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:qdd:cl:WarehousingOutboundStatusCode</a>



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





## 5 Business Message Examples

### 5.1 Example 1

This is an example of the Warehousing Outbound Instruction message.

#### Party Information

GS1 Global Location Number	Party Type
3333333000001	Logistic Services Seller
2222222000004	Logistic Services Buyer
3333333000018	Shipper
4444444000008	Receiver

#### Message Example 1

Attribute	Value
<b>WarehousingOutboundInstruction</b>	
creationDateTime	2012-07-17 12:15
documentStatusCode	ORIGINAL
documentActionCode	ADD
<b>EntityIdentification (+warehousingOutboundInstructionIdentification)</b>	
entityIdentification	INSDDES00123
<b>TransactionalParty (+logisticServicesSeller)</b>	
gln	3333333000001
<b>TransactionalParty (+logisticServicesBuyer)</b>	
gln	2222222000004
<b>WarehousingOutboundInstructionShipment (+)</b>	
warehousingDespatchTypeCode	WAREHOUSE_SHIPMENT
<b>TransactionalParty (+receiver)</b>	
gln	4444444000008
<b>TransactionalParty (+shipper)</b>	
gln	3333333000018
<b>ShipmentTransportationInformation (+)</b>	
transportServiceCategoryType	30
transportServiceLevelCode	STANDARD_SERVICE
<b>LogisticEvent (+plannedDelivery)</b>	
<b>DateTimeRange (+logisticEventPeriod)</b>	
beginDate	2012-07-18
beginTime	15:00
endDate	2012-07-18
endTime	16:00

Attribute	Value
<b>WarehousingOutboundInstructionShipmentItem</b>	
lineItemNumber	1
plannedDespatchQuantity	30
TransactionalTradeItem (+)	
gtin	01111111000120
<b>WarehousingServiceInstruction (+inlineServiceInstruction)</b>	
warehousingServiceConditionCode	BUILD_PALLET
<b>WarehousingServiceAttribute (+)</b>	
warehousingServiceAttributeTypeCode	PALLET_HEIGHT
warehousingServiceAttributeMeasurement	180 cm

## 5.2 Example 2

This is an example of the Warehousing Outbound Notification message.

### Message Example 2

Attribute	Value
<b>WarehousingOutboundNotification</b>	
creationDateTime	2012-07-18 12:15
documentStatusCode	ORIGINAL
documentActionCode	ADD
<b>EntityIdentification (+warehousingOutboundNotificationIdentification)</b>	
entityIdentification	OBSTA00113
<b>TransactionalParty (+logisticServicesSeller)</b>	
gln	3333333000001
<b>TransactionalParty (+logisticServicesBuyer)</b>	
gln	2222222000004
<b>WarehousingOutboundNotificationShipment</b>	
warehousingOutboundStatusCode	READY_TO_SHIP
<b>TransactionalParty (+receiver)</b>	
gln	4444444000008
<b>TransactionalParty (+shipper)</b>	<b>gln: 3333333000018</b>
<b>ShipmentIdentification (+)</b>	
gsin	33333330000114050
<b>WarehousingOutboundNotificationShipmentItem</b>	
lineItemNumber	1
warehousingOutboundExceptionCode	QUANTITY_ROUNDED
plannedDespatchQuantity	30

Attribute	Value
actualDespatchQuantity	32
<b>TransactionalTradeItem (+)</b>	
gtin	01111111000120
<b>WarehousingQuantityVariance (+outboundQuantityVariance)</b>	
varianceQuantity	2
warehousingQuantityVarianceCode	QUANTITY_OVER
<b>LogisticUnit</b>	
tradeItemQuantity	16
<b>LogisticUnitIdentification (+)</b>	
sscc	133333330000003450
<b>LogisticUnit</b>	
tradeItemQuantity	16
<b>LogisticUnitIdentification (+)</b>	
sscc	133333330000003450

### 5.3 Example 3

This is a **complex example** of the Warehousing Outbound Instruction message. Logistic Services Buyer 2222222 instructs his Logistic Services Seller (3333333, the warehouse service provider) that goods need to be shipped and transported as follows:

- By a LSB designated carrier (5555555) to an LSB designated freight forwarder (6666666).
- Freight forwarder (6666666) will transport the goods overseas to a de-consolidation centre (4444444001104) controlled by the customer (4444444).
- From there the customer will arrange transport to the final customer location (4444444002224).

#### Message Example 3

Attribute	Value	Comment
<b>WarehousingOutboundInstruction</b>		
creationDateTime	2012-07-17 12:15	
documentStatusCode	ORIGINAL	
documentActionCode	ADD	
<b>EntityIdentification (+warehousingOutboundInstructionIdentification)</b>		
entityIdentification	INSD00123	
<b>TransactionalParty (+logisticServicesSeller)</b>		
gln	3333333000001	The LS SELLER has a single central GLN to identify the single Integration Services Point of Contact for that LSS.
<b>TransactionalParty (+logisticServicesBuyer)</b>		
gln	2222222000004	The LS BUYER has a single central GLN to identify the single Integration Services Point of Contact for that LSB.



Attribute	Value	Comment
<b>WarehousingOutboundInstructionShipment (+)</b>		
warehousingDespatchTypeCode	WAREHOUSE_SHIPMENT	
<b>TransactionalParty (+receiver)</b>		Identifies <b>one of multiple</b> entities within the Customers (Material Buyer) organisation.
gln	4444444000008	
<b>TransactionalParty (+shipper)</b>		Identifies the warehouse from which the LSS is expected to despatch the Order. The LS <b>SELLER may operate many different</b> warehousing sites even multiple different sites for the same LS BUYER. The GLN used to identify the sites are the GLN assigned and owned by the LS SELLER.
gln	333333000018	
<b>TransactionalParty (+shipTo)</b>		Identifies the facility (de-consolidation centre) where the Customer wants to get the Order delivered to by the forwarder. This GLN is assigned by the <b>Customer who may operate many different facilities</b> each of which (may be) identified with a GLN. The Customer should then also clearly identify/include this GLN in the Order placed on the Material Supplier (the LS BUYER).
gln	4444444001104	
<b>TransactionalParty (+ultimateConsignee)</b>		Identifies the final delivery location for the Order. This GLN is assigned by the Customer (who is ultimately responsible for the delivery to this point). Clearly the Customer should include the appropriate GLN for the ultimateConsignee in the original Order placed on the Material Supplier (the LS BUYER).
gln	4444444002224	
<b>ShipmentTransportationInformation (+)</b>		
transportServiceCategoryType	30	
transportServiceLevelCode	STANDARD_SERVICE	
<b>TransactionalParty (+carrier)</b>		Identifies the specific entity within the Carriers organisation that will be responsible for the physical movement of the Order from the warehouse
gln	5555555000005	
<b>TransactionalParty (+freightForwarder)</b>		Identifies the location of the freight forwarder where the goods need to be dropped-off.
gln	6666666000002	
<b>LogisticEvent (+plannedDelivery)</b>		

Attribute	Value	Comment
<b>DateOptionalTime (+logisticEventDateTime)</b>		
date	2012-07-25	
<b>WarehousingOutboundInstructionShipmentItem</b>		
lineItemNumber	1	
plannedDespatchQuantity	30	
<b>TransactionalTradeItem (+)</b>		
gtin	01111111000120	

## 6 Implementation Considerations

### 6.1 User Guide

The Functional User Guide contains more information about the structure and content of the Warehouse Outbound Instruction and Notification message:

[http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade\\_messages.html#WarehouseOutboundInstructionandNotification](http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#WarehouseOutboundInstructionandNotification)

### 6.2 Message Specific Considerations

Not applicable

## 7 Summary of Changes

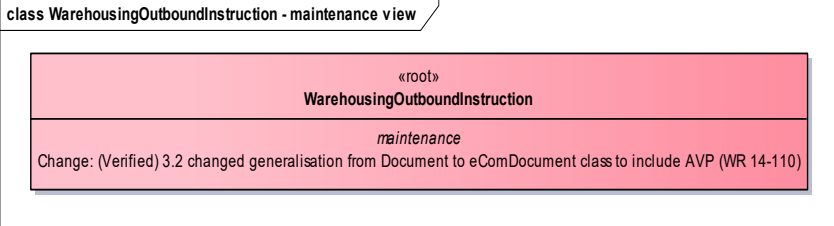
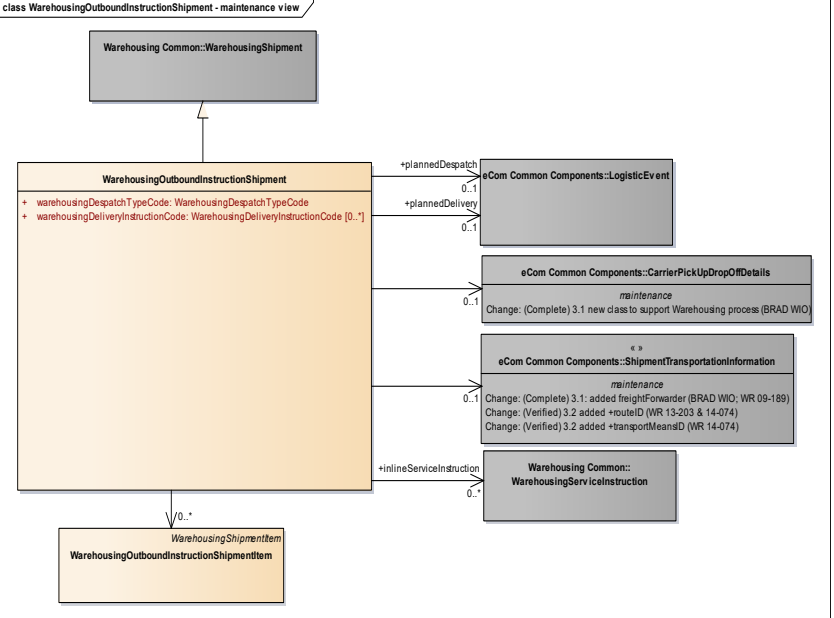
Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: <http://wr.gs1.org>. The system is accessible to registered users. New visitors 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.

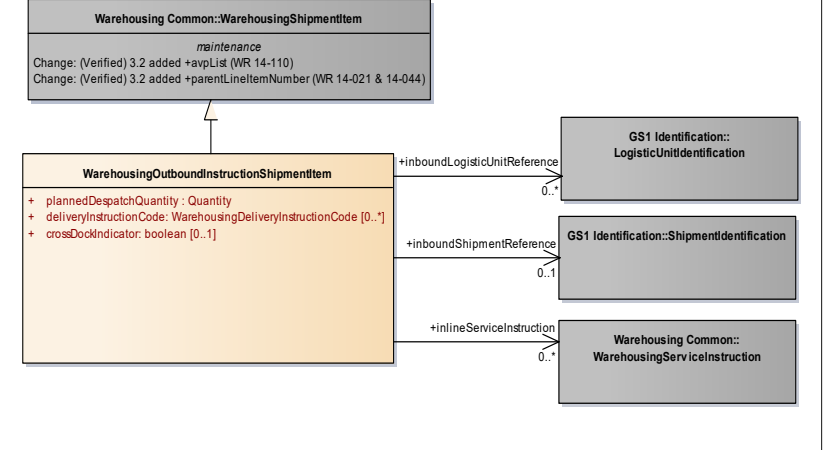
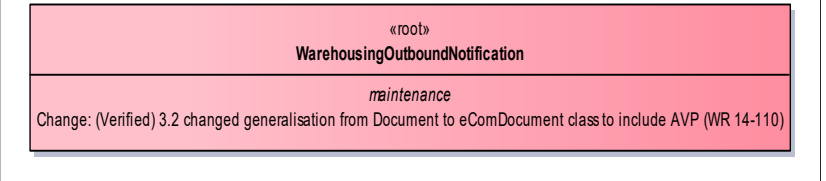

**Note:** WRs submitted earlier than February 2012 should be searched in Old Change Requests.

### 7.1 BMS Release 3.1

First release

### 7.2 BMS Release 3.2

Change	Associated WR
<p>class WarehousingOutboundInstruction - maintenance view</p> 	<p><b>14-000110</b> Add Attribute Value Pair at the root, line item and sub line item levels</p>
<p>class WarehousingOutboundInstructionShipment - maintenance view</p> 	<p><b>14-000074</b> Add route of the transport and or truck-ID in a GS1 SML warehouse outbound instruction message</p>

Change	Associated WR
<p><b>class WarehousingOutboundInstructionShipmentItem - maintenance view</b></p> 	<p><b>14-000110</b> Add Attribute Value Pair at the root, line item and sub line item levels</p>
<p><b>class WarehousingOutboundNotification - maintenance view</b></p> 	<p><b>14-000110</b> Add Attribute Value Pair at the root, line item and sub line item levels</p>
<p><b>class WarehousingOutboundNotification_Shipment - Maintenance view</b></p> 	<p><b>13-000106</b> Add to warehousing messages carrier track and trace information with: package tracking number and carrier track and trace URL.</p>

Change	Associated WR
<p>class WarehousingOutboundNotification_ShipmentItem - Maintenance view</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p style="text-align: center;"><b>WarehousingOutboundNotificationShipmentItem</b></p> <ul style="list-style-type: none"> <li>+ warehousingOutboundExceptionCode [0..*]</li> <li>+ plannedDespatchQuantity: Quantity [0..1]</li> <li>+ actualDespatchQuantity: Quantity [0..1]</li> <li>+ actualAcceptedQuantity: Quantity [0..1]</li> <li>+ actualReceivedQuantity: Quantity [0..1]</li> </ul> <p style="text-align: center;"><i>maintenance</i></p> <p>Change: (Verified) 3.2 added association to CarrierTrackAndTraceInformation (WR 13-106)</p> </div>	<p><b>WR 13-106</b></p> <p>Add to warehousing messages carrier track and trace information with: package tracking number and carrier track and trace URL.</p> <p><b>WR 14-110</b></p> <p>Add Attribute Value Pair at the root, line item and sub line item levels</p>

### 7.3 BMS Release 3.3

Change	Associated WR
<p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p> <p>class WarehousingOutboundNotification - maintenance view</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p><b>eCom GS1 Identification:: Ecom_EntityIdentification</b></p> <p><i>maintenance</i></p> <p>Change: (New) 3.3 New class (WR 15-314)</p> </div> <div style="text-align: center; margin: 10px 0;"> <p>↑ 1..1</p> </div> <div style="text-align: center; margin: 0 auto;"> <p>+warehousingOutboundNotificationIdentification</p> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px 0; background-color: #f8d7da;"> <p style="text-align: center;">«root» <b>WarehousingOutboundNotification</b></p> <p style="text-align: center;"><i>maintenance</i></p> <p>Change: (Complete) 3.2 changed generalisation from Document to eComDocument to include AVP (WR 14-110) Change: (New) 3.3 added association to CarrierTrackAndTraceInformation (WR 13-106) Change: (New) 3.3 changed association from EntityIdentification to Ecom_EntityIdentification (WR 15-314)</p> </div> </div>	<p><b>15-000314</b></p> <p>Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Associated CarrierTrackAndTraceInformation class</p> <p>class WarehousingOutboundNotification - maintenance view</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p><b>eCom Common Components:: CarrierTrackAndTraceInformation</b></p> <p><i>maintenance</i></p> <p>Change: (Complete) 3.2 new class (WR 13-106)</p> </div> <div style="text-align: center; margin: 10px 0;"> <p>← 0..1</p> </div> <div style="border: 1px solid black; padding: 5px; margin: 5px 0; background-color: #f8d7da;"> <p style="text-align: center;">«root» <b>WarehousingOutboundNotification</b></p> <p style="text-align: center;"><i>maintenance</i></p> <p>Change: (Complete) 3.2 changed generalisation from Document to eComDocument to include AVP (WR 14-110) Change: (New) 3.3 added association to CarrierTrackAndTraceInformation (WR 13-106) Change: (New) 3.3 changed association from EntityIdentification to Ecom_EntityIdentification (WR 15-314)</p> </div> </div>	<p><b>13-000106</b></p> <p>Add carrier track and trace information to warehousing messages</p>





Change	Associated WR
<p>Created Ecom_DocumentReference class and changed association from the previous DocumentReference</p>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Created Ecom_DocumentReference class and changed association from the previous DocumentReference</p>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Created Ecom_TradeItemIdentification class and changed association from the previous TradeItemIdentification</p>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Created Ecom_EntityIdentification class and changed association from the previous EntityIdentification</p>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>
<p>Created Ecom_LogisticUnitIdentification class and changed association from the previous LogisticUnitIdentification</p>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>

Change	Associated WR
<p>Created Ecom_ShipmentIdentification class and changed association from the previous ShipmentIdentification</p> <pre> classDiagram     class WarehouseingOutboundInstructionShipmentItem {         +plannedDespatchQuantity :Quantity         +deliveryInstructionCode :WarehouseingDeliveryInstructionCode [0..*]         +crossDocIndicator :boolean [0..1]     }     class Ecom_GS1_Identification_Ecom_ShipmentIdentification {     }     WarehouseingOutboundInstructionShipmentItem "0..1" --&gt; "0..1" Ecom_GS1_Identification_Ecom_ShipmentIdentification : *inboundShipmentReference         </pre>	<p><b>15-000314</b> Make GS1 identification keys optional in GS1 EDI XML</p>

### 7.4 BMS Release 3.4

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

### 7.5 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

### 9.1.1 Work Group

Function	Name	Company / organisation
Co-chair	Rossner (Pottier), Natascha	GS1 France
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Member	Tse, Steve	GS1 Hong Kong
Member	Tyson, Betty	Knouse Foods Cooperative, Inc
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Member	Van der Eijk, Pim	OASIS - Sonnenglanz Consulting BV
Member	Veldhuis, Saskia	Procter & Gamble Co.

Function	Name	Company / organisation
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