



Business Message Standard (BMS)

Transport Pick-Up Drop-off Request and Confirmation

BMS Release: 3.0.0, SMG: eCom

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Document Summary

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13-May-2011	1.0	Coen Janssen	Version 1.0 (draft)	Review comments processed, editorial changes in text.	N/A
17-Jun-2011	1.1.0	Mark Van Eeghem	Pilot Issue Resolution	See section Summary of Changes	N/A
25-Oct-2011	1.1.0	Coen Janssen	BMS Release 3.0 eBallot Approved	Status updated	Not Applicable

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Table of Contents

1. Business Domain View	5
1.1. Problem Statement / Business Need	5
1.2. Objective.....	5
1.3. Audience.....	5
1.4. References	5
1.5. Acknowledgements	6
1.5.1. Work Group	6
1.5.2. Design Team Members.....	6
2. Business Context	7
3. Additional Technical Requirements Analysis.....	8
3.1. Technical Requirements (optional)	8
4. Business Transaction View	9
4.1. Use Case Diagram – Request Transport Pick-up / Drop-off	9
4.2. Use Case Description – Request Transport Pick-up / Drop-off	9
4.3. Activity Diagram(s) – Request Transport Pick-up / Drop-off.....	10
4.4. Use Case Diagram – Confirm Transport Pick-up / Drop-off	11
4.5. Use Case Description – Confirm Transport Pick-up / Drop-off	11
4.6. Activity Diagram(s) – Confirm Transport Pick-up / Drop-off	12
5. Information Model (Including GDD Report)	13
5.1. Transport Pick-up Drop-off Request (message)	13
5.1.1. GDD Report - Transport Pick-up Drop-off Request.....	13
5.1.2. Class Diagram - Transport Pick-up Drop-off Request	15
5.2. Transport Pick-up Drop-off Confirmation (message)	16
5.2.1. GDD Report - Transport Pick-up Drop-off Confirmation	16
5.2.2. Class Diagram - Transport Pick-up Drop-off Confirmation.....	17
5.3. Transport Pick-up Drop Off Common (package)	18
5.3.1. GDD Report – Transport Pick-Up Drop-off Consignment.....	18
5.3.2. Class Diagram – Transport Pick-up Drop-off Consignment.....	19
5.3.3. GDD Report – Transport Pick-up Drop-off Shipment	20
5.3.4. Class Diagram – Transport Pick-up Drop-off Shipment.....	21
5.4. Enumerations (message specific).....	22
5.4.1. TransportAppointmentTypeEnumeration	22
5.4.2. TransportAppointmentStatusEnumeration.....	22
5.5. Codelists.....	22
6. Business Document Example.....	22
6.1. Pick-Up Request for a Consignment.....	22

6.2.	Pick-Up Confirmation for a Consignment	23
7.	Implementation Considerations	24
8.	Testing	24
8.1.	Pass / Fail Criteria	24
8.2.	Test Data	24
9.	Appendices	24
10.	Summary of Changes	25
11.	Adherence to Architectural Principles	26

1. Business Domain View

1.1. Problem Statement / Business Need

This business message standard enables the request and confirmation for an appointment to collect goods at a pick-up location or to deliver goods at a drop-off location.

Initial information about the collection and delivery of goods may already have been exchanged in the transport instruction. However, the party where the goods are collected (consignor / pick-up location / shipper / ship-from location) or delivered (consignee / drop-off location / receiver / ship-to location) will not in all cases be aware of the transport instruction details or they might have changed.

In the pick-up / drop-off request the carrier can specify delays or other relevant status information that might impact the time of collection or the time of delivery. In the pick-up / drop-off confirmation besides the detailed time and location (dock door) additional handling instructions might be included.

This scenario is beneficial for the time slot management at the pick-up and drop-off location. Planning of time slots (time slot allocation) at the pick-up and drop-off locations (dock door) is often critical because of the limited capacity of these locations.

1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced BRAD(s).

1.3. Audience

Not Applicable

1.4. References

Reference Name	Description
BRAD Transport Management (GS1, 2009)	
Logistics Interoperability Model (GS1, 2007)	

1.5. Acknowledgements

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

1.5.1. Work Group

Function	Name	Company / organisation
Work Group Chair	Fred Kempkes	Unilever
Work Group Chair	Jaco Voorspuij	DHL
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Work Group Member	Richard Chresta	GS1 Switzerland & UNCEFACT TGB3
Work Group Member	Jeff Melcher	Army & Air Force Exchange Service
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Work Group Member	Pere Rosell	GS1 Spain
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Work Group Member	Gerald Borgolte	Atos Origin
Work Group Member	Audun Vennesland	SINTEF & eFreight
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1.5.2. Design Team Members

Function	Name	Organisation
Modeler	Coen Janssen, Mark van Eeghem	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer	Not applicable	
Peer Reviewer	Eric Kauz	GS1
Process Manager	Jean-Luc Champion	GS1 Global Office

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Deliver / Transport Management
System Capabilities	GS1 System
Official Constraints	None

3. Additional Technical Requirements Analysis

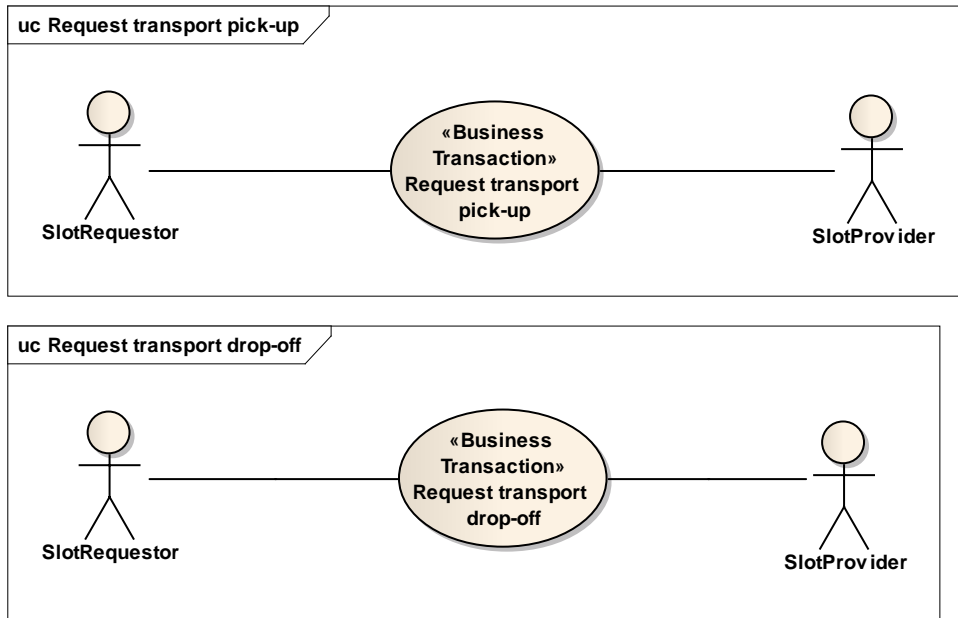
Not applicable

3.1. Technical Requirements (optional)

Number	Statement	Rationale
	Not applicable	

4. Business Transaction View

4.1. Use Case Diagram – Request Transport Pick-up / Drop-off



4.2. Use Case Description – Request Transport Pick-up / Drop-off

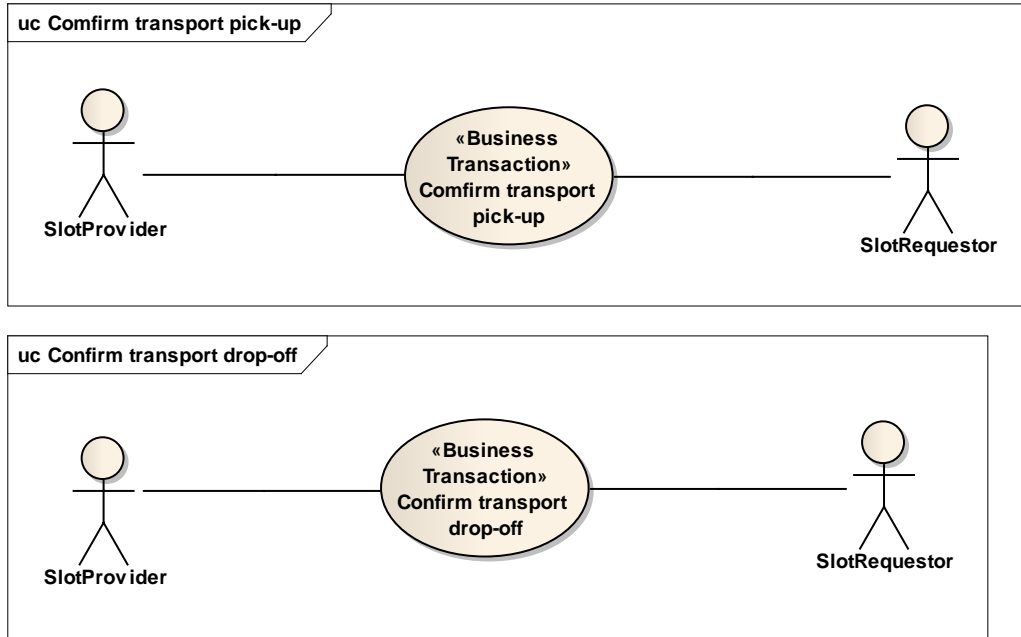
Use Case ID	UC-1
Use Case Name	Request Transport Pick-up / Drop-off
Use Case Description	To request a slot (detailed time and location) for the collection or delivery of goods.
Actors (Goal)	Slot Requestor (logistic service provider) Slot Provider (customer, supplier, consolidation centre, ...)
Performance Goals	Not applicable
Preconditions	<ul style="list-style-type: none"> ■ The provider is aware that a shipment / consignment will need to be collected or delivered, based on previous information exchanges. ■ The requestor is aware of the planned execution details for the transport, for example based on information exchanged in the transport instruction.
Post conditions	The slot provider has received the request.

Scenario	Begins when the slot requestor determines a specific appointment is required.		
	Continues with...		
	Step #	Actor	Activity Step
	1	Requestor	Issues the transport pick-up drop-off request
	2	Provider	Receives the transport pick-up drop-off request
	Ends when		
Alternative Scenario	Step #	Actor	Activity Step
	1		
	2		
	3		
Related Requirements	Not applicable		
Related Rules	Not applicable		

4.3. Activity Diagram(s) – Request Transport Pick-up / Drop-off

Not applicable

4.4. Use Case Diagram – Confirm Transport Pick-up / Drop-off



4.5. Use Case Description – Confirm Transport Pick-up / Drop-off

Use Case ID	UC-2												
Use Case Name	Confirm Transport Pick-up / Drop-off												
Use Case Description	To confirm the assignment of a slot (detailed time and location) for the collection or delivery of goods.												
Actors (Goal)	Slot Requestor (logistic service provider) Slot Provider (customer, supplier, consolidation centre, ...)												
Performance Goals	Not applicable												
Preconditions	<ul style="list-style-type: none">■ The provider is aware that a shipment / consignment will need to be collected or delivered, based on previous information exchanges.■ Optional: the provider may have received a Transport Pick-up Drop-off Request												
Post conditions													
Scenario	<p>Begins when the provider receives the transport pic-up drop-off request</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>provider</td><td>Assigns a slot (time and location)</td></tr><tr><td>2</td><td>provider</td><td>Sends the confirmation</td></tr><tr><td>3</td><td>requestor</td><td>Receives the confirmation</td></tr></table> <p>Ends when</p>	Step #	Actor	Activity Step	1	provider	Assigns a slot (time and location)	2	provider	Sends the confirmation	3	requestor	Receives the confirmation
Step #	Actor	Activity Step											
1	provider	Assigns a slot (time and location)											
2	provider	Sends the confirmation											
3	requestor	Receives the confirmation											

Alternative Scenario	Begins when the provider determines an update on the pick-up or drop-off slot is required.		
	Continues with...		
	Step #	Actor	Activity Step
	1	provider	Assigns a slot (time and location)
	2	provider	Sends the confirmation
	3	requestor	Receives the confirmation
Related Requirements	Not applicable		
Related Rules	Not applicable		

4.6. Activity Diagram(s) – Confirm Transport Pick-up / Drop-off

Not applicable

5. Information Model (Including GDD Report)

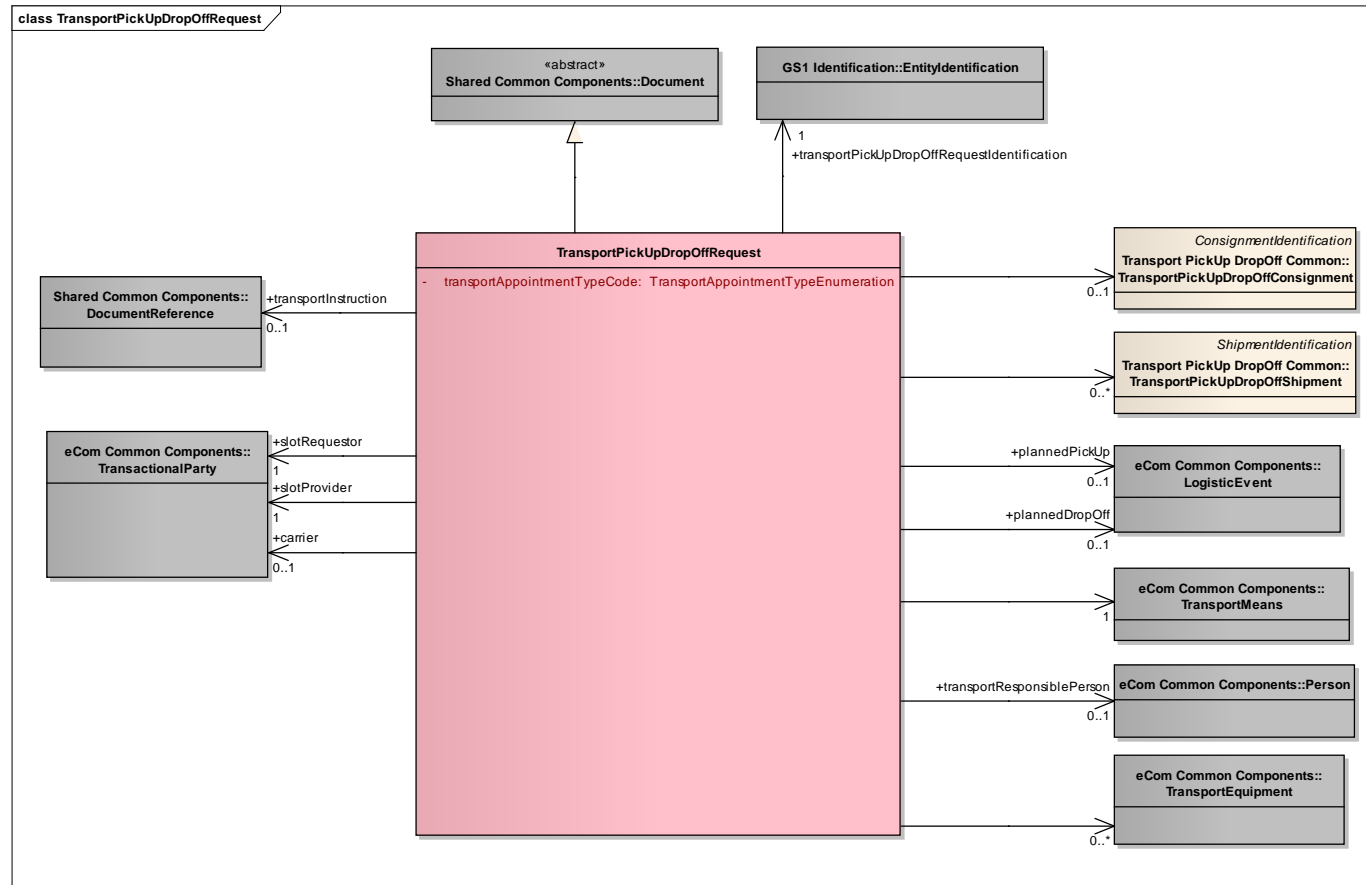
5.1. Transport Pick-up Drop-off Request (message)

5.1.1. GDD Report - Transport Pick-up Drop-off Request

content	multiplicity	attribute / role	datatype / secondary class	definition	requirements
TransportPickUpDropOffRequest				This business message standard enables the request for an appointment to collect goods at a pick-up location or to deliver goods at a drop-off location.	
Association	0..*		TransportEquipment	Details on the transport equipment used for the transport.	BRAD Transport Management – new requirement
Association	0..1	carrier	TransactionalParty	The party that will collect, transport and deliver the goods.	BRAD TM - TransportPUDORrequest-4
Association	1	slotRequestor	TransactionalParty	The party that requests a pick-up or drop-off slot from another party.	BRAD TM - new requirement
Association	1	slotProvider	TransactionalParty	The party that provides a pick-up or drop-off slot to another party.	BRAD TM - new requirement
Association	0..1	transportInstruction	DocumentReference	Reference to the transport instruction document related to this request.	BRAD TM - TransportPUDORrequest-3
Association	0..1	plannedPickUp	LogisticEvent	Details on the planned collection of the consignment.	
Generalization			Document	Provides the generic document details for this business document.	BRAD TM - TransportPUDORrequest-2
Association	1	transportPickUpDropOffRequestIdentification	EntityIdentification	The identification of the Transport Pick-up Drop-off Request document.	BRAD TM - TransportPUDORrequest-1
Association	1		TransportMeans	Details on the transport means used for the transport.	BRAD TM - TransportPUDORrequest-6
Association	0..*		TransportPickUpDropOffShipment	Details on the shipment that will be collected or delivered.	
Association	0..1	plannedDropOff	LogisticEvent	Details on the planned delivery of the consignment.	

content	multipl icity	attribute / role	datatype / secondary class	definition	requirements
Association	0..1	transportResponsible Person	Person	The person responsible for the execution of this pick-up or drop-off, for example the driver.	BRAD TM - TransportPUDORE quest-4
Association	0..1		TransportPickUpDropof fConsignment	Details on the consignment that will be collected or delivered.	
Attribute		transportAppointment TypeCode	TransportAppointmentT ypeEnumeration	Code specifying whether the request relates to a pick-up or drop-off.	

5.1.2. Class Diagram - Transport Pick-up Drop-off Request



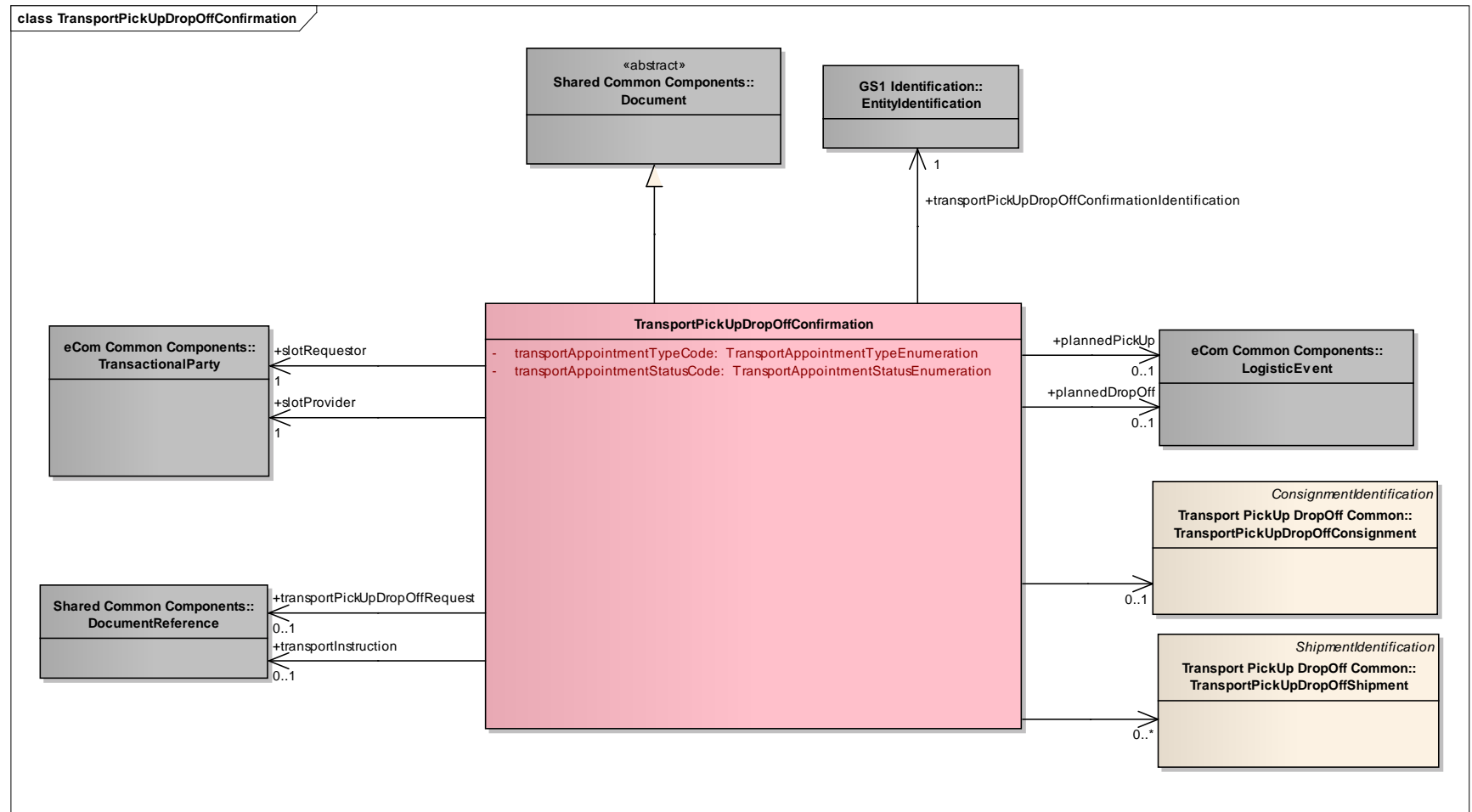
5.2. Transport Pick-up Drop-off Confirmation (message)

5.2.1. GDD Report - Transport Pick-up Drop-off Confirmation

content	multipli city	attribute / role	datatype / secondary class	definition	requirements
TransportPickUpDropOffConfirmation				This business message standard enables the confirmation of an appointment to collect goods at a pick-up location or to deliver goods at a drop-off location.	
Association	1	slotProvider	TransactionalParty	The party that requests a pick-up or drop-off slot from another party.	BRAD TM - TransportPUDOCconfirmation- new
Association	1	slotRequestor	TransactionalParty	The party that provides a pick-up or drop-off slot to another party.	BRAD TM - TransportPUDOCconfirmation- new
Association	0..1	transportInstruction	DocumentReference	Reference to the Transport Instruction document related to this confirmation.	BRAD TM - TransportPUDOCconfirmation-4
Association	0..1	transportPickUpDropOffRequest	DocumentReference	Reference to the Transport Pick-up Drop-off Request document related to this request.	BRAD TM - TransportPUDOCconfirmation-3
Association	0..1	plannedDropOff	LogisticEvent	Details on the planned delivery of the consignment.	BRAD TM - TransportPUDOCconfirmation-6
Generalization			Document	Provides the generic document details for this business document.	BRAD TM - TransportPUDOCconfirmation-2
Association	1	transportPickUpDropOffConfirmationIdentification	EntityIdentification	The identification of the Transport Pick-up Drop-off Request document.	BRAD TM - TransportPUDOCconfirmation-1
Association	0..1		TransportPickUpDropOffConsignment	Details on the consignment that will be collected or delivered.	BRAD TM - TransportPUDOCconfirmation-7
Association	0..*		TransportPickUpDropOffShipment	Details on the shipment that will be collected or delivered.	BRAD TM - TransportPUDOCconfirmation-7
Association	0..1	plannedPickUp	LogisticEvent	Details on the planned collection of the consignment.	BRAD TM - TransportPUDOCconfirmation-6
Attribute		transportAppointmentTypeCode	TransportAppointmentTypeEnumeration	Code specifying whether the request relates to a pick-up or drop-off.	
Attribute		transportAppointment	TransportAppointmentStat	Code specifying the status of the	BRAD TM -

content	multipl city	attribute / role	datatype / secondary class	definition	requirements
		tStatusCode	usEnumeration	confirmed appointment, for example UPDATED.	TransportPUDOCnfirmation-5

5.2.2. Class Diagram - Transport Pick-up Drop-off Confirmation

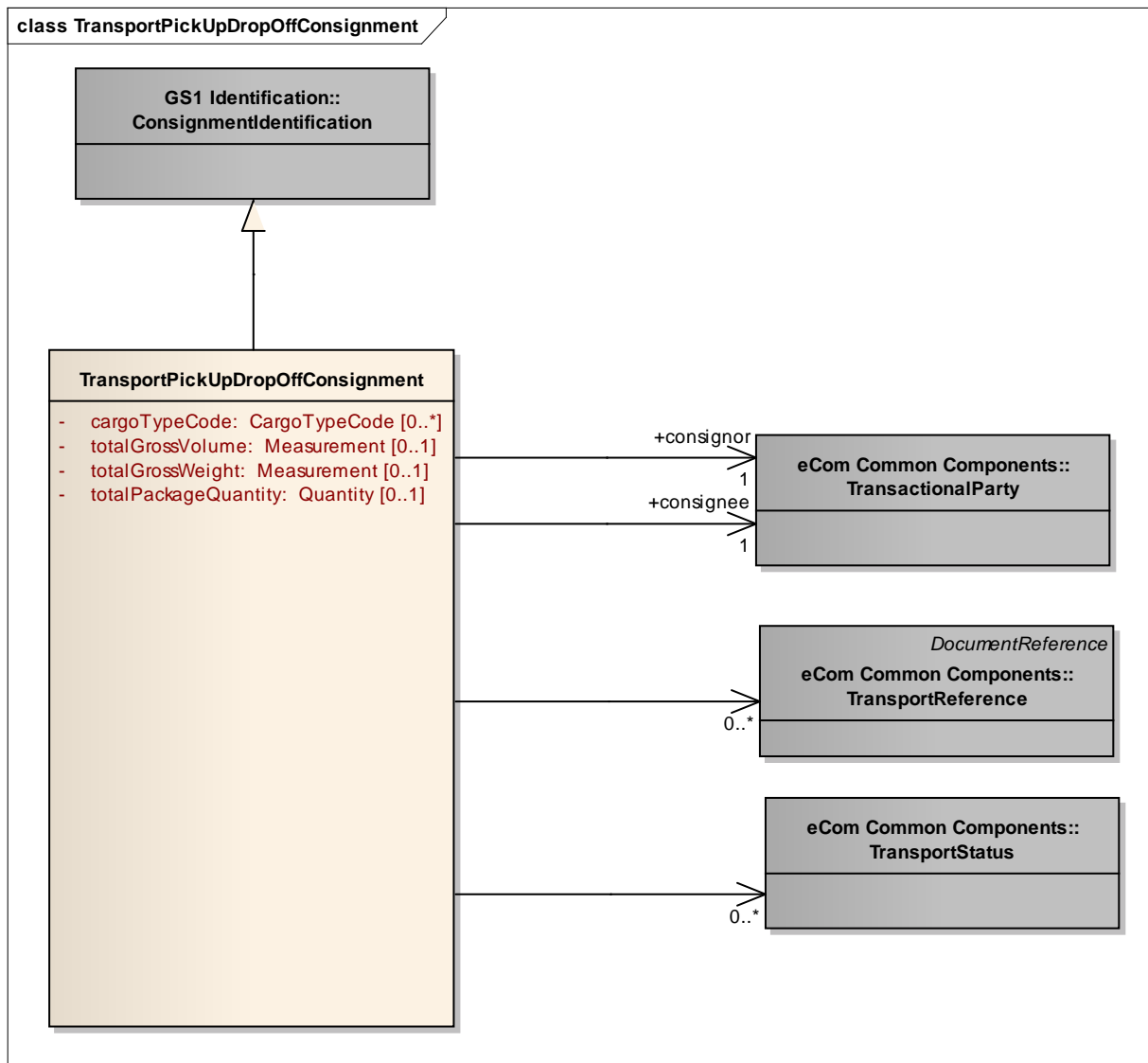


5.3. Transport Pick-up Drop Off Common (package)

5.3.1. GDD Report – Transport Pick-Up Drop-off Consignment

content	multiplicity	attribute / role	datatype / secondary class	definition	requirements
TransportPickUpDropOff Consignment				Details on the consignment that will be collected or delivered.	BRAD TM - TransportPUDORRequest-6
Association	1	consignee	TransactionalParty	The party receiving a consignment of goods.	
Generalization			ConsignmentIdentification	The unique identifier for this consignment.	
Association	0..*		TransportStatus	Details on the transport status of the consignment.	
Association	0..*		TransportReference	References to the commercial transaction or to transport or legal documents related to the consignment.	
Association	1	consignor	TransactionalParty	The party despatching a consignment of goods.	
Attribute	[0..*]	cargoTypeCode	CargoTypeCode	Code specifying the classification of a type of cargo for example hazardous cargo.	
Attribute	[0..1]	totalGrossVolume	Measurement	A measure of the volume, normally calculated by multiplying the maximum length, width, and height of the packaged goods.	
Attribute	[0..1]	totalGrossWeight	Measurement	A measure of the mass of the goods including the weight of transport packaging, and potentially the weight of any transport equipment.	
Attribute	[0..1]	totalPackageQuantity	Quantity	Total number of logistic units (e.g. pallets) in this transport cargo.	

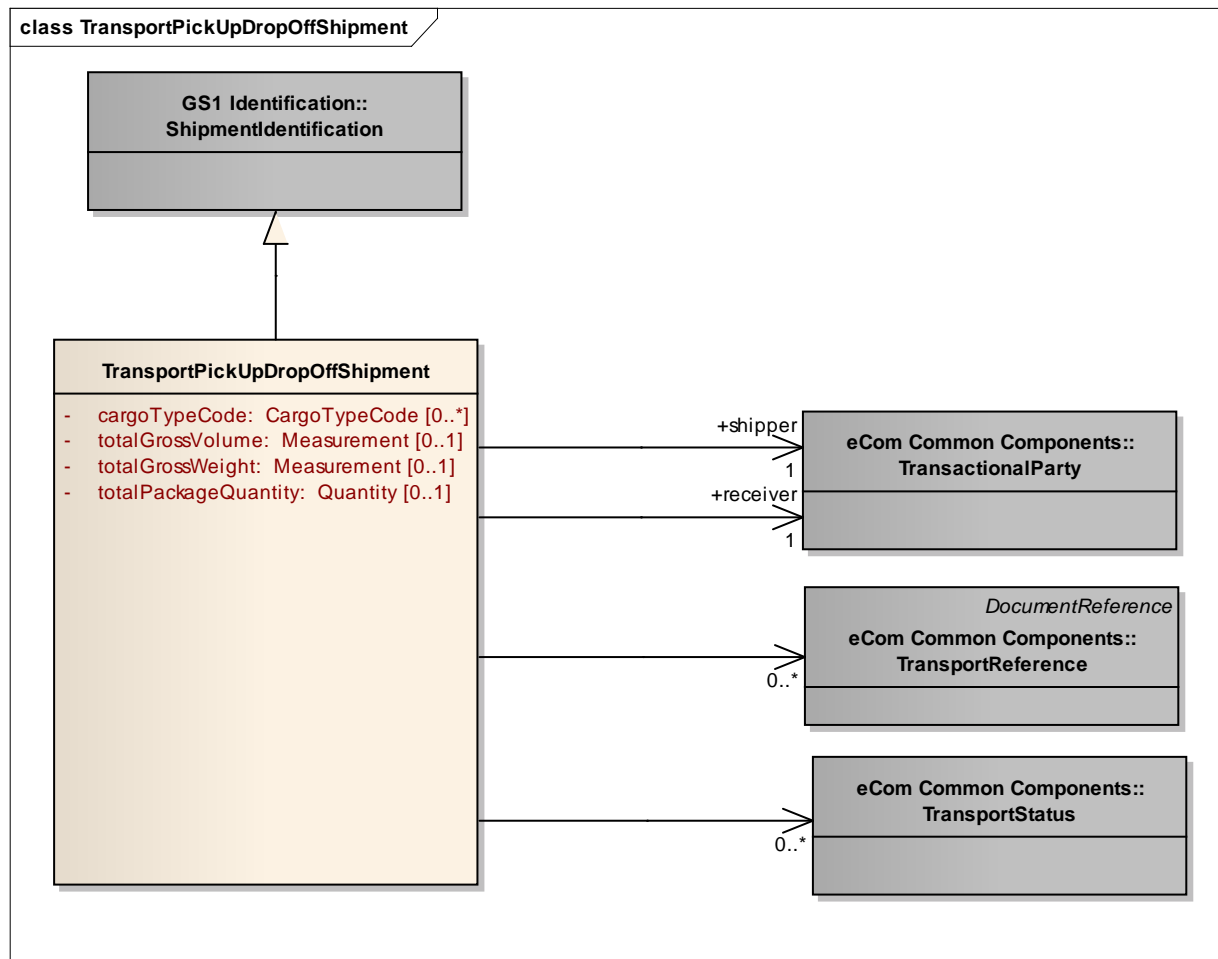
5.3.2. Class Diagram – Transport Pick-up Drop-off Consignment



5.3.3. GDD Report – Transport Pick-up Drop-off Shipment

content	multi- plicity	attribute / role	datatype / secondary class	definition	requirements
TransportPickUpDropOff Shipment				Details on the shipment that will be collected or delivered.	BRAD TM - TransportPUDORRequest-6
Generalization			ShipmentIdentification	The unique identifier for this shipment.	
Association	0..*		TransportStatus	Details on the transport status of the shipment.	
Association	0..*		TransportReference	References to the commercial transaction or to transport or legal documents related to the shipment.	
Association	1	receiver	TransactionalParty	A party which engages in receiving this shipment of goods.	
Association	1	shipper	TransactionalParty	A party which engages in shipping this shipment of goods.	
Attribute	[0..*]	cargoTypeCode	CargoTypeCode	Code specifying the classification of a type of cargo for example hazardous cargo.	
Attribute	[0..1]	totalGrossVolume	Measurement	A measure of the volume, normally calculated by multiplying the maximum length, width, and height of the packaged goods.	
Attribute	[0..1]	totalGrossWeight	Measurement	A measure of the mass of the goods including the weight of transport packaging, and potentially the weight of any transport equipment.	
Attribute	[0..1]	totalPackageQuantity	Quantity	Total number of logistic units (e.g. pallets) in this transport cargo.	

5.3.4. Class Diagram – Transport Pick-up Drop-off Shipment



5.4. Enumerations (message specific)

5.4.1. TransportAppointmentTypeEnumeration

Code	Code Description
PICK_UP	The appointment is for the pick-up of goods.
DROP_OFF	The appointment is for the drop-off of goods.

5.4.2. TransportAppointmentStatusEnumeration

Code	Code Description
CONFIRMED	Confirmation of the pick-up / drop-off slot requested in the Transport Pick-up Drop-off Request.
UPDATED	Update of the pick-up / drop-off slot requested in the Transport Pick-up Drop-off Request.
ALLOCATED	Allocation of a pick-up / drop-off slot without prior request.

5.5. Codelists



Note: Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for all Code Lists

Class	Codelist	Referenced in
TransportPickUpDropOff Shipment TransportPickUpDropOff Consignment	CargoTypeCode	eCom Domain Common Library Business Message (BMS) Release 3.0.0

6. Business Document Example

6.1. Pick-Up Request for a Consignment

TransportPickUpDropOffRequest	
creationDateTime	2011-01-12T12:00:00
documentStatusCode	ORIGINAL
transportAppointmentTypeCode	PICK_UP
EntityIdentification (+transportPickUpDropOffRequestIdentification)	
uniqueCreatorIdentification	PUDOR00001
TransportPickUpDropOffConsignment	
ginc	7365566156191234567
TransactionalParty (+consignor)	
gln	7365566156190

TransactionalParty (+consignee)	
gln	7300011234566
LogisticEvent (+plannedPickUp)	
DateOptionalTime (+logisticEventDateTime)	
date	2009-01-13
time	09:00:00
TransportMeans	
transportMeansType	31
transportMeansID	TF-69-XX
TransportEquipment	
transportEquipmentTypeCode	14
ReturnableAssetIdentification(+individualReturnableAssetIdentification)	
grai	00000000000000
additionalReturnableAssetIdentification; additionalReturnableAssetIdentificationTypeCode	TRL-ABC-912; OWNER_ASSIGNED
TransactionalParty (+slotRequestor)	
gln	4048623000003
TransactionalParty (+slotProvider)	
gln	7365566156190

6.2. Pick-Up Confirmation for a Consignment

TransportPickUpDropOffConfirmation	
creationDateTime	2011-01-12T12:00:00
documentStatusCode	ORIGINAL
transportAppointmentTypeCode	PICK_UP
transportAppointmentStatusCode	CONFIRMED
EntityIdentification (+transportPickUpDropOffConfirmationIdentification)	
uniqueCreatorIdentification	PUDOC00001
LogisticEvent (+plannedPickUp)	
DateOptionalTime (+logisticEventDateTime)	
date	2009-01-13
time	09:00:00
LogisticLocation	
gln	7365566156190
subLocationIdentification	Dockdoor-23
TransportPickUpDropOffConsignment	

ginc	7365566156191234567
TransactionalParty (+consignor)	
gln	7365566156190
TransactionalParty (+consignee)	
gln	7300011234566
TransactionalParty (+slotRequestor)	
gln	4048623000003
TransactionalParty (+slotProvider)	
gln	7365566156190
DocumentReference (+transportPickUpDropOffRequest)	
uniqueCreatorIdentification	PUDOR00001

7. Implementation Considerations

(Insert Content Here)

8. Testing

This section describes the testing criteria for business solutions.

8.1. Pass / Fail Criteria

Not Applicable.

8.2. Test Data

See Business Document Example

9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number
<p>Added section 5.5 Codelists, and populated the section.</p> <p>Moved section “Architecture Principles” after Summary of Changes.</p> <p>Fixed typo in header of section 11: “Principals” -> “Principles”</p> <p>Updated business examples to match the pilot issue resolution and the resequencing of attributes and associations.</p> <p><i>Pilot Issue resolution:</i></p> <p>Updated class diagram and GDD report for Transport Pick Up Drop Off Consignment:</p> <ul style="list-style-type: none"> ■ Renamed class, changed dropoff into DropOff ■ Changed association to ConsignmentIdentification into generalization <p>Updated class diagram and GDD report for Transport Pick Up Drop Off Shipment:</p> <ul style="list-style-type: none"> ■ Changed association to ShipmentIdentification into generalization ■ Corrected associations to TransportPickUpDropOffConsignment 	1.1.0	N/A

11. Adherence to Architectural Principles

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
2.1	The GS1 Architecture shall be fully aligned to GS1 Strategy, Vision, & Mission	The solution in the BSD is aligned with the business problem as defined in the CR and BCD.	<input checked="" type="checkbox"/>	
2.2	The GS1 Architecture shall leverage the use of GS1 Keys	The solution maintains the GS1 keys as the primary, mandatory identifiers.	<input checked="" type="checkbox"/>	
2.3	The GS1 Architecture shall leverage the common GS1 Global Data Dictionary (GDD)	The solution does not alter the formats of primary identifiers and complies with data elements as defined in the Global Data Dictionary.	<input checked="" type="checkbox"/>	
2.4	The GS1 Architecture shall be forward-looking, provide for migration strategies and backward compatibility, and support adaptable and flexible solutions	The solution is backwards compatible according to the stated scope in the document. The solution takes into consideration the potential impact of the standard, especially with respect to implementation and maintenance. Any potential known impact is documented.	<input checked="" type="checkbox"/>	
2.5	The GS1 Architecture shall support business processes tied to trading partner needs, relevant, and committed to demonstrable business value	All business requirements contained in the related BRAD come from trading partners or representatives with a genuine intention to implement the standards when developed. All requirements are driven by the business needs of the trading partners.	<input checked="" type="checkbox"/>	
2.6	The GS1 Architecture shall enable security where appropriate	Security solutions are included where appropriate.	<input checked="" type="checkbox"/>	
2.7	The GS1 Architecture shall be consistent	The solution does not violate consistency of the data architecture within each layer and between each layer of the GS1 System. For example, requirements do not alter a key used across GS1 standards or alter a reusable object without applying this change across related standards.	<input checked="" type="checkbox"/>	
2.8	The GS1 Architecture shall be royalty-free	The solution supports this principal where possible. The solution may include the use of other standards organizations that may not be royalty free.	<input checked="" type="checkbox"/>	

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
3.1	The GS1 Architecture should promote the achievement of the best overall value at the lowest total cost of ownership	The solution promotes the achievement of the best overall value at the lowest total cost of ownership.	<input checked="" type="checkbox"/>	
3.2	The GS1 Architecture should promote scalability	The solution takes into consideration the potential scalability of the standard. Any potential known impact to scalability is documented.	<input checked="" type="checkbox"/>	
3.3	The GS1 Architecture should promote seamless integration	The BSD promotes seamless integration with other GS1 Standards if in scope.	<input checked="" type="checkbox"/>	
3.4	The GS1 Architecture should promote interoperability and compliance	The solution takes into consideration data and process interoperability. For example, any shared objects between interoperable messages must remain consistent. Any potential known impact to interoperability is documented.	<input checked="" type="checkbox"/>	
3.5	The GS1 Architecture should promote simplicity and standard interfaces	The solution does not threaten the standardisation of the interfaces of the GS1 System. Interfaces are not limited to references to technology but also include such ideas as business interfaces and process interfaces.	<input checked="" type="checkbox"/>	
3.6	The GS1 Architecture should avoid duplication	The solution does not create duplications with existing GS1 components. If there are potential duplications, these are documented with a stated rationale for the duplication.	<input checked="" type="checkbox"/>	
3.7	The GS1 Architecture should promote technology independence and a layered approach	The solution does not impose implicit or explicit restrictions of any technology.	<input checked="" type="checkbox"/>	
3.8	The GS1 Architecture should promote global cross-sector definitions and leverage the best of global and the best of local	The solution takes into account a global perspective.	<input checked="" type="checkbox"/>	
3.9	The GS1 Architecture shall leverage a common strategy for extensibility	This solution uses consistent and common, extensibility approaches, methodologies and technology where available and applicable.	<input checked="" type="checkbox"/>	
4.1	In support of a common GS1 Architecture, GS1 shall leverage work of other standards bodies wherever possible.	This solution utilizes works of other standards bodies wherever possible.	<input checked="" type="checkbox"/>	

#	AG Principle	BSD Adherence Statement	Does BSD Adhere?	Comment
4.2	In support of a common GS1 Architecture, GS1 shall strive to eliminate exceptions and variances wherever possible	The solution strives to eliminate exceptions and variances wherever possible and does not create new variances.	<input checked="" type="checkbox"/>	