Business Message Standard (BMS)

for

Despatch Advice

BRG: Deliver

BMS Release: 2.0.2

Document Version: 2.0.3

Release Date: 31.03.2005

(dd.mm.ccyy)

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Change Request Reference

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CR Submitter(s):	Deliver Task Group
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Business Requirements Document (BRAD) Reference

BRAD Title: Despatch Advice – Business Requirement Document
BRAD Date: 11.11.2004
BRAD Version: 1.0.9.3

BRAD Title:
BRAD Date:
BRAD Version:

Document Summary

Document Title:	BMS For Deliver/Despatch Advice
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Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31.12.2004	2.0.0	Eric Kauz	Initial Version in BMS/BSD template	Migration of BRD to standard BMS/BSD for-mat	N/A
31.12.2004	2.0.0	Rob Toole	Updated BSD with GDD in-formation, and class diagram		
18.04.2007	2.0.3	Giovanni Biffi	Editorial Changes	Minor Editorial Changes	

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1 Business Solution Design

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

Generally, the Despatch Advice enables one Shipper to provide information about the content of a shipment to one Receiver. Specifically, the Despatch Advice serves as a link to a prior agreement between Shipper and Receiver and is applicable to one or many Receiver destination points from one Shipper launch point. Furthermore, the Despatch Advice may be used to indicate the despatch of goods being returned by the Receiver. The Despatch Advice may be utilized downstream between retailers, suppliers, 3PLs, carriers and manufacturers as well as upstream between manufacturers, 3PLs and material suppliers.

1.1.2 Objective

The objective of the Despatch Advice is:

- To facilitate the receipt of goods
- To make the despatch advice applicable to a replenishment scenario where there is no link to an order but to a contract or other kind of agreement.
- To make the despatch advice applicable to multiple destination points
- To provide more detailed information about the shipment as well as the content of a shipment from a shipper and if applicable the shipper's warehouse to the receiver and his warehouse
- To make the despatch advice applicable for the despatch of goods being returned

1.1.3 Audience

Retailers, manufacturers, warehouses, material suppliers, carriers and any other third party such as a logistic service or 3PL provider involved in the despatch and receipt of goods.

1.1.4 Artefacts

Artefact name	Artefact description
BMS for Core Despatch Advice v 1.3.1	
BRW for Despatch Advice V 0.3	
BRD for Core Despatch Advice v 1.2	

1.1.5 References

- Change Request CR #03-000141 (bundling of CR's #01-000014, #01-000078, #03-000006)
- Change Request CR #03-000043, lot number and quantity correction
- Change Request CR #03-000172, return of goods

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1.1.6 Acknowledgements

- Deliver BRG members
- Distribution Task Group members

1.1.6.1 BRG Members

function	Name	Company / organisation
BRG Co-chair	Debra Noyes	Johnsonville Sausage
BRG Co-chair	Sue Donarski	Schneider Logistics
BRG Member	Regina De Baker	Watkins
BRG Member	Shanda Marvin	Procter & Gamble
BRG Member	Mike Osiecki	Best Buy Company
BRG Member	Roman Gural	UPS
BRG Member	Wayne Gingerich	Werner Enterprises
BRG Member	Paul Martin	General Mills
BRG Member	Kari Melhus	Target Corporation
BRG Member	Jeff Miller	Kraft Foods, Inc.
BRG Member	Bob Robertson	Manhattan Associates
BRG Member	David Burns	INTTRA
BRG Member	Marco Van Der Lee	EAN Netherlands
BRG Member	Apostolos Xiradakis	Unilever
BRG Member	Thorsten Kirschner	CCG (EAN Germany)
BRG Member	Jean François Fusco	Geodis Solution
BRG Member	Aart Koning	Albert Heijn
BRG Member	José Jean-Paul Tavares	EAN Brazil
BRG Member	Jeoffrey Cubillos	IBC Solutions
BRG Member	Tamari Tashiro	DCC (EAN Japan)
BRG Member	Tan Jin Soon	SANC (EAN Singapore)
BRG Manager	Bruno Julien	Gencod EAN France

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1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		
ITRG Member		
...		

1.1.6.3 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
DTG Co-Chair	Debra Noyes	Johnsonville Sausage
DTG Co-Chair	Mike Osiecki	Best Buy Company
Participant	Regina De Baker	Watkins
Participant	Dean Yuhas	Millard Refrigeration
Participant	Sue Donarski	Schneider Logistics
Participant	Paul Martin	General Mills
Participant	Kari Melhus	Target Corporation
Participant	Jeff Miller	Kraft Foods, Inc.
Participant	Franck Napoli	LMI
Participant	David Burns	INTTRA
Participant	Marco Van Der Lee	EAN Netherlands
Participant	Apostolos Xiradakis	Unilever
Participant	Fred Kempkes	Unilever
Participant	Thorsten Kirschner	CCG (EAN Germany)
Participant	Jean François Fusco	Geodis Solution
Participant	Aart Koning	Albert Heijn
Participant	Tan Jin Soon	SANC (EAN Singapore)
Participant	Bruno Julien	Gencod EAN France

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Rob Toole	EAN.UCC
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer	John Ryu	EAN.UCC

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1.2 Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Deliver
System Capabilities	EAN.UCC
Official Constraints	None

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

(User Interface, Security, Performance, Quality, etc.))

Number	Statement	Rationale

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1.4 Business Transaction View

The Despatch Advice must contain certain information, in line item format, to convey comparative information to the Receiver. The Despatch Advice therefore will provide for the identification of the individual lines within the Despatch Advice by line sequence number. The Despatch Advice may provide for a reference to other related documents, such as the Order, Delivery Note and Consignment. The Despatch Advice may also include a reference to a contract and may include the line sequence numbers from the documents Order, Delivery Note, Consignment and Contract.

1.4.1 Business Transaction Use Case Diagram

1.4.2 Use Case Description

Use Case Name	Generate Despatch Advice
Use Case Description	Describes a complete process whereby a Shipper generates a Despatch Advice based on information about the order and the product.
Actors	Receiver and Shipper
Preconditions	Master data alignment of locations (GLNs) and products (GTINs).
Postconditions	Check of the received physical goods with the information of the Despatch Advice and the check of the state of the goods themselves.
General Scenario	1. Shipper issues the Despatch Advice containing the information of the actual physical shipment. 2. Receiver receives Despatch Advice. 3. If necessary, Receiver creates and sends Despatch Advice to Shipper indicating returned goods. *See role reversal note in activity and sequence diagrams.

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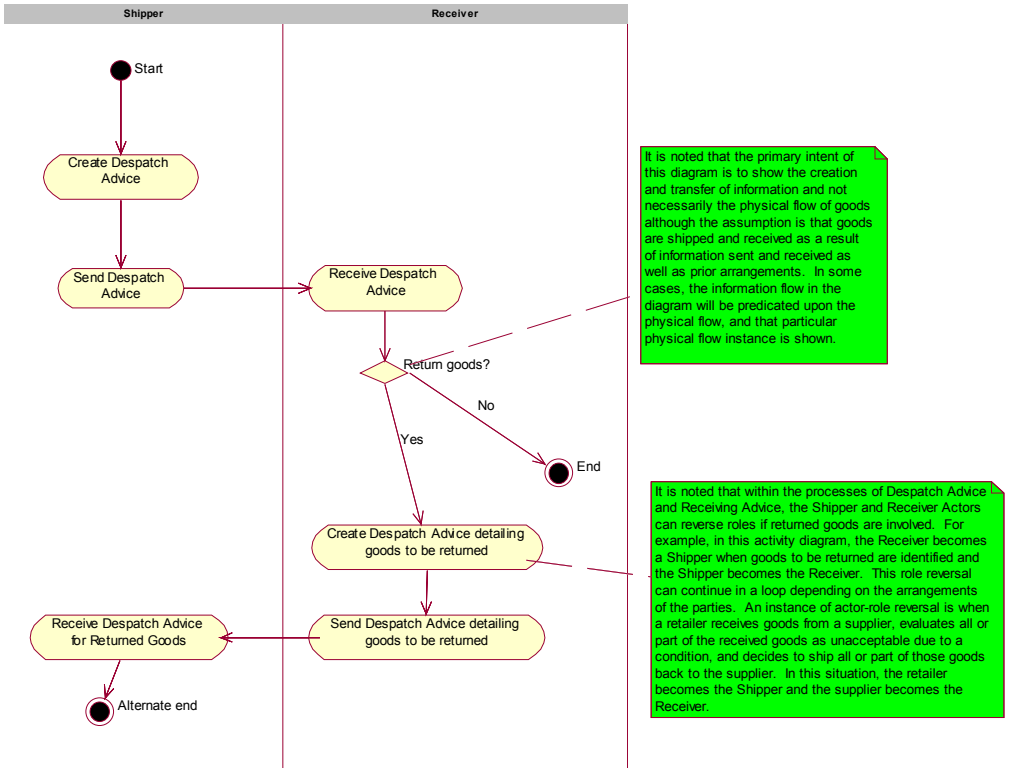
1.4.3 Business Transaction Activity Diagram(s)



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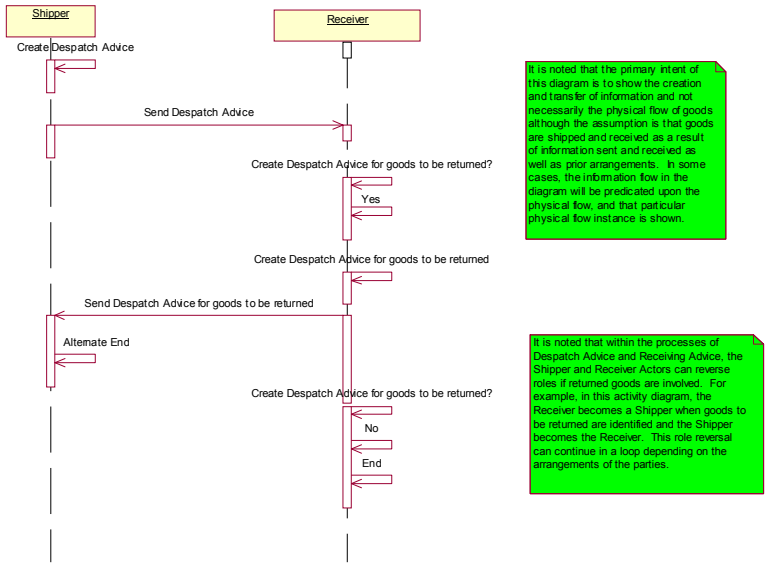
1.4.4 Business Transaction Sequence Diagram(s) (optional)



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1.5 Information Model (including GDD Report)

1.5.1 Data Description:

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
ActualShipping				Despatch Advice BRD 11/11/04 V 1.0.9.3
	actualShipDateTime			
	estimatedDelivery-DateTime			
AdditionalItemData				BMS Common Library Version 2.0.0
	shelfLife			
	productionDate			
DespatchAdvice				Despatch Advice BRD 11/11/04 V 1.0.9.3
		carrier	PartyIdentification	
		shipper	PartyIdentification	
		shipFrom	PartyIdentification	
		shipTo	PartyIdentification	
		receiver	PartyIdentification	
		none (inheritance)	Document	
		despatchAdviceIden-tification	EntityIdentification	
		none	DespatchItem	
		contract	Reference	
		consignmentIdentifi-cation	Reference	
		deliveryNote	Reference	
		orderIdentification	Reference	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		<<choice>>	EstimatedDelivery	
		<<choice>>	ActualShipping	
DespatchItem				BMS Common Library Version 2.0.0
		inheritance	LineItem	
		<<choice>>	TradeItemUnit	
		<<choice>>	LogisticUnits	
DetailLevelReference				BMS Common Library Version 2.0.0
		inheritance	LineItem	
		none	Reference	
Document				BMS Common Library Version 2.0.0
EntityIdentification				BMS Common Library Version 2.0.0
EstimatedDelivery				Despatch Advice BRD 11/11/04 V 1.0.9.3
	estimatedDeliveryDateTime			
	actualShipDateTime			
ItemContainment				BMS Common Library Version 2.0.0
	quantityContained		MultiMeasurementValue	
		listForEachItem	SpecificItemData	
		none	AdditionalItemData	
		extendedAttributes	TransactionalItemData	
		containedItemIdentification	TradeItemIdentification	
		orderIdentification	DetailLevelReference	
		contract	DetailLevelReference	
		deliveryNote	DetailLevelReference	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		consignmentIdentifi-cation	DetailLevelReference	
LineItem				BMS Common Library Version 2.0.0
LogisticUnits				BMS Common Library Version 2.0.0
	identification			
		itemsContained	ItemContainment	
PartyIdentification				BMS Common Library Version 2.0.0
Reference				BMS Common Library Version 2.0.0
SpecificItemData				BMS Common Library Version 2.0.0
	serial			
TradeItemIdentifica-tion				BMS Common Library Version 2.0.0
TradeItemUnit				BMS Common Library Version 2.0.0
		itemContained	ItemContainment	
TransactionalItem-Data				BMS Common Library Version 2.0.0
	itemExpirationData			
	sellByDate			
	availableForSaleDate			
	productionDate			
	lotNumber			
	quantityContained			

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1.5.2 GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ActualShipping			Despatch Advice BRD 11/11/04 V 1.0.9.3	ActualShipping.Details	ActualShipping has a choice association from the DespatchAdvice class. It contains the attributes actualShipDateTime and estimatedDeliveryDateTime.	
	actualShipDateTime			Actual Shipping. Actual Ship_ Date Time. Date Time	DateTime- The date and time the goods were shipped. The format is ISO 8601 CCYY-MM-DD "T" HH:MM:SS for all Date Time types.	1.1
	estimatedDeliveryDateTime			Actual Shipping. Estimated Delivery_ Date Time. Date Time	DateTime- The estimated date and time of delivery.	0..1
AdditionalItemData				DataEntryName Needed	ItemContainment has AdditionalItemData. AdditionalItemData contains the at DataEntryName Needed tributes shelfLife and productionDate. It's association is 0..1, showing that if the class is used, both attributes are used because if there is a shelfLife, there must be a productionDate.	
	shelfLife			DataEntryName Needed	String - Period of time in which the product can be offered for sale.	1..1
	productionDate			DataEntryName Needed	Date - The date that the product was produced.	1..1
DespatchAdvice				Despatch Advice. Details	The DespatchAdvice class is the data class that creates the advice message that the Shipper sends to the Receiver. This class inherits data directly from the class called document, which means it	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					inherits the attributes contentVersion, creation-Date, documentStructureVersion and lastUpdateDate. Despatch Advice has relationships with other classes as well, that allow the DespatchAdvice message to have meaning when sent to the Receiver. It is important to note that every class serves the root class – DespatchAdvice. The classes that Despatch Advice directly "touches" are in turn served by other classes that provide intelligence through direct and indirect relationships to the root class.	
		carrier	PartyIdentification	Despatch Advice. Carrier. Party Identification	Carrier charged with delivery of goods.	1..*
		shipper	PartyIdentification	Despatch Advice. Shipper. Party Identification	A party who engages in shipping goods.	1.1
		shipFrom	PartyIdentification	Despatch Advice. Ship From. Party Identification	Identification of the location from where goods will be or have been shipped.	0..1
		shipTo	PartyIdentification	Despatch Advice. Ship To. Party Identification	Identification of the location to where goods will be or have been shipped.	1..1
		receiver	PartyIdentification	Despatch Advice. Receiver. Party Identification	A party who engages in receiving goods.	1.1
		none (inheritance)	Document	Despatch Advice. Inheritance_ Association.		

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Electronic_ Document. Details		
		despatchAdviceIdentification	EntityIdentification	Despatch Advice. Identification. Entity Identification	N/A	1..1
		none	DespatchItem	Despatch Advice. Association. Despatch Advice Line		1..*
		contract	Reference	Despatch Advice. Order Identification. Entity Reference	For DespatchAdvice class: the specific contract referenced by the Despatch Advice.	0..1
		consignmentIdentification	Reference	Despatch Advice. Consignment. Entity Reference	For DespatchAdvice class: unique identification of the receiver.	0..1
		deliveryNote	Reference	Despatch Advice. Delivery Note. Entity Reference	For DespatchAdvice class: note accompanying the despatch advice.	0..1
		orderIdentification	Reference	Despatch Advice. Order. Entity Reference	N/A	0..1
		<<choice>>	EstimatedDelivery	DataEntryName Needed		1..1
		<<choice>>	ActualShipping	DataEntryName Needed		1..1
DespatchItem				Despatch Advice Line. Details	DespatchAdvice has a DespatchItem, from which it gains specific information about the item(s) that will be detailed in	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					the despatch. DespatchItem has direct relationships with LineItem, from which it inherits line item numbers. DespatchItem also has a choice relationship with LogisticUnits and TradeItemUnit, in order to provide the DespatchAdvice with specific information about either a trade item or a logistic unit.	
		inheritance	LineItem	Despatch Advice Line. Inheritance_ Association. Line Item		
		<<choice>>	TradeItemUnit	Despatch Advice Line. Choice_ Association. Trade Item Unit Information		1..1
		<<choice>>	LogisticUnits	Despatch Advice Line. Choice_ Association. Logistic Unit		1.1
DetailLevelReference				DataEntryName Needed	This class was included to accommodate the requirement for identifying the reference document line number per despatch advice line number. It does this using it's associations with ItemContainment and its association with Reference.	
		inheritance	LineItem	DataEntryName Needed		
		none	Reference	DataEntryName Needed		1..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Document				Electronic_ Document. Details	This external class originates with Document from the common library.	M
EntityIdentification				Entity Identification. Details	This external class originates from Entity Identification.	
EstimatedDelivery				DataEntryName Needed	EstimatedDelivery has a choice association with the DespatchAdvice class. It also contains the attributes actualShipDateTime and estimatedDeliveryDateTime.	
	estimatedDeliveryDateTime			DataEntryName Needed	DateTime - The estimated date and time of delivery.	1..1
	actualShipDateTime				DateTime - The date and time the goods were shipped.	0..1
ItemContainment				Despatch Item. Details	The class ItemContainment provides a method to associate an item with a quantity for the purpose of specifying the contents of despatch (logistics) units. It contains the attribute quantityContained, referring to the quantity contained in the despatch advice. Its association role with TradeItemUnit is itemContained, referring to the individual trade item. Its association role with LogisticUnits is the plural, itemsContained, referring to items contained in a certain higher level of packaging than the item level, i.e. pallet or case.	
	quantityContained		MultiMeasurementValue	Despatch Item. Contained_ Quantity. Quantity	Measurement - The number of units shipped of the order unit or associated item. The unit of measure for the quantity is assumed to be the same as for	1..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					the associated item. Thus the quantity must be specified in the same unit of measure as the item, e.g. case, each, etc…	
		listForEachItem	SpecificItemData	Despatch Item. List For Each Item. Serialised_ Despatch Item	The list of SSCCs or GTINs for the associated items despatched	0..*
		none	AdditionalItemData	Despatch Item. Association. Additional_ Trade Item Containment Line		0..1
		extendedAttributes	TransactionalItemData	Despatch Item. Extended Attributes. Transactional_ Trade Item Containment Line	The association role indicates the enhancement the association gives to the ItemContainment.	0..1
		containedItemIdentification	TradeItemIdentification	Despatch Item. Identification. Trade Item Identification	This will be a GTIN.	1..1
		orderIdentification	DetailLevelReference	Despatch Item. Order_ Association. Despatch Advice_Line Item_ Detail Level Reference	Unique reference number to identify the receiver's purchase.	0..1
		contract	DetailLevelReference	Despatch Item. Contract_ Association. Despatch	The specific contract referenced by the Despatch Advice.	0..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Advice_Line Item_ Detail Level Reference		
		deliveryNote	DetailLevelReference	Despatch Item. Delivery Note_ Association. Despatch Advice_Line Item_ Detail Level Reference	Note accompanying the Despatch Advice.	0..1
		consignmentIdentification	DetailLevelReference	Despatch Item. Consignment_ Association. Despatch Advice_Line Item_ Detail Level Reference	Unique identification of the receiver.	0..1
LineItem				Line Item. Details	This external class originates from Document.	
LogisticUnits				DataEntryName Needed	LogisticUnits is used to specify the serial and the SSCC when defining the item contents for a single despatched unit (mixed pack). Where TradeItemUnit identifies a specific item, Logistic Units identifies items in packs/cases/pallets, etc…. in a shipment. LogisticUnits is a <<choice>> off of DespatchItem because the Despatch Advice may involve trade items, not LogisticUnits. LogisticUnits has one attribute called identification. Logistic Units in turn has ItemContainment, in order to gain quantity intelligence.	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	identification			DataEntryName Needed	SSCC - A globally unique identifier assigned to a logistics unit.	1..1
		itemsContained	ItemContainment	DataEntryName Needed	Its association role with LogisticUnits is the plural, itemsContained, referring to items contained in a certain higher level of packaging than the item level, i.e. pallet or case.	1..*
PartyIdentification				Party Identification. Details	This external class originates from Party Identification.	
Reference				Entity Reference. Details	This external class originates with Reference from the common library.	
SpecificItemData				DataEntryName Needed	ItemContainment has SpecificItemData which has the attribute serial. SpecificItemData might be used by ItemContainment to specify the list of SSCCs for the associated items despatched. When this class is used, the count of SSCCs must equal the quantity shipped for the item.	
	serial			DataEntryName Needed	String - A globally unique identifier assigned to a logistics unit.	1..1
TradeItemIdentification				Trade Item Identification. Details	ItemContainment has TradeItemIdentification for the purpose of identifying the trade item(s) in the ItemContainment, i.e. by using GTIN. TradeItemIdentification originates from the common class of the same name and is used in many class diagrams. It has the association role of containedItemIdentification with ItemContainment.	
TradeItemUnit				DataEntryName Needed	TradeItemUnit is a <<choice>> off of DespatchItem because the Despatch	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					Advice may involve Logistic Units, not TradeItems. TradeItemUnit in turn has ItemContainment, in order to gain quantity intelligence.	
		itemContained	ItemContainment	DataEntryName Needed	Its association role with TradeItemUnit is itemContained, referring to the individual trade item.	1..1
TransactionalItemData				DataEntryName Needed	ItemContainment has TransactionalItemData. Transactional ItemData allows for specific item data as indicated by its attributes itemExpirationDate, lotNumber, quantityContained, sellByDate, productionDate and availableForSaleDate. The association role indicates the enhancement the association gives to ItemContainment. productionDate is included in this class because it may be used by itself, without shelfLife.	
	itemExpirationData			DataEntryName Needed	Date - The maximum durability of an item CCYY-MM-DD. The format is ISO 8601 CCYY-MM-DD for all data types.	0..1
	sellByDate			DataEntryName Needed	Date - Maximum durability date of an item CCYY-MM-DD.	0..1
	availableForSaleDate			DataEntryName Needed	Date - The date the item is available for sale represented in CCYY-MM-DD.	0..1
	productionDate			DataEntryName Needed	Date - The date that the product was produced.	0..1
	lotNumber			DataEntryName Needed	String - The batch or lot number of a trade item.	0..1
	quantityContained			DataEntryName Needed	Measurement - The number of units shipped of the order unit or associated	0..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					item. The unit of measure for the quantity is assumed to be the same as for the associated item. Thus the quantity must be specified in the same unit of measure as the item, e.g. case, each, etc.	

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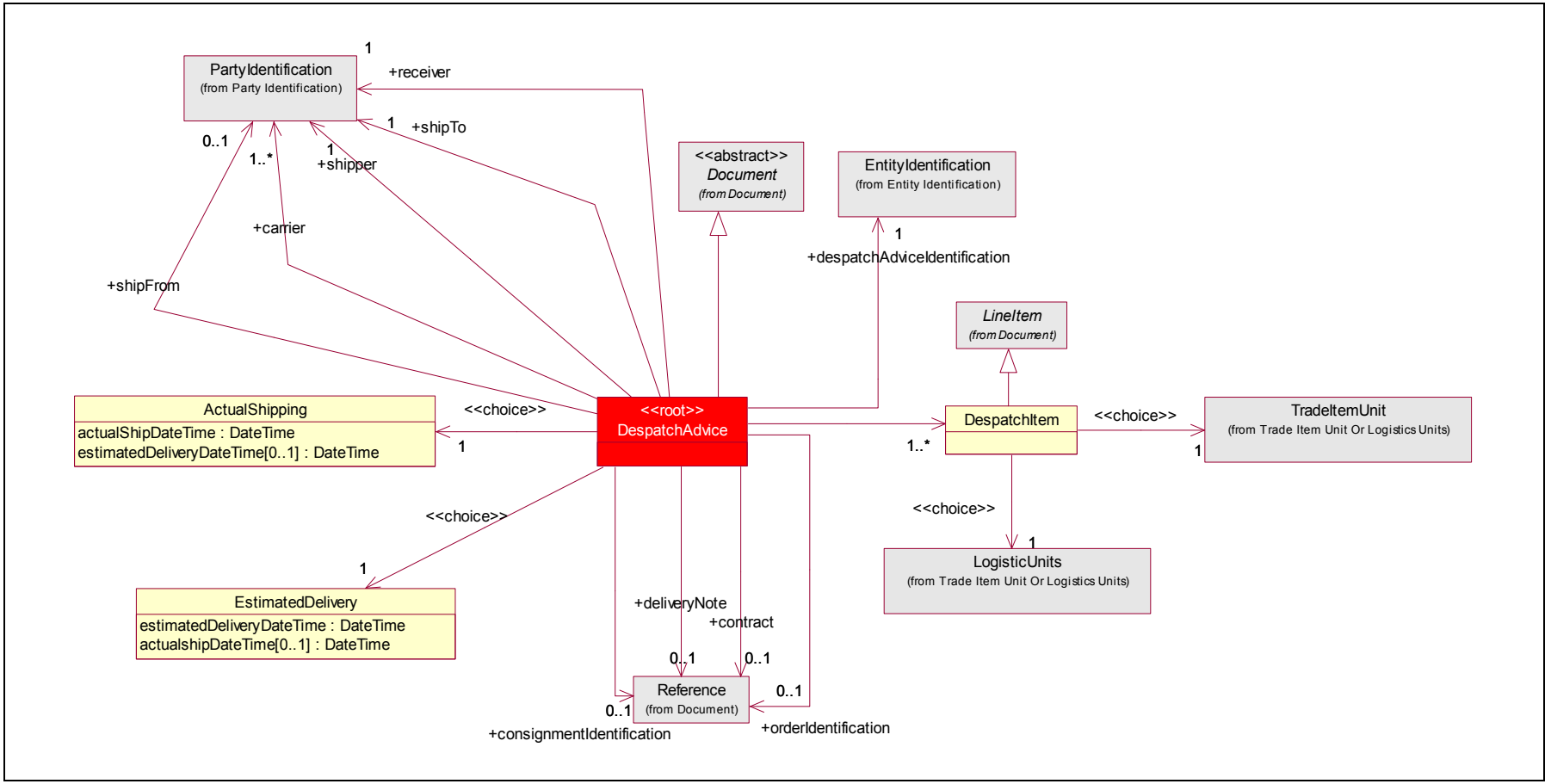
1.5.3 Class Diagrams



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1.5.4 Code Lists

None

Code List Name	Code List Description
Code Name	**Code Description**

Code List Name	Code List Description
Code Name	**Code Description**

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1.6 Business Document Example

Not filled in the previous BRAD

1.7 Implementation considerations

One of the requirements specified in the BRW Version 0.3 of 8 December, 2003 is as follows:

The Despatch Advice should also include the line sequence numbers (UML: number) from the documents (Order, Delivery Note, Consignment and Contract) that can be referenced to. These line sequence numbers for referenced documents are optional.

For example:

Despatch Advice line nbr	Reference Identification and Date	Reference Document line nbr
1	Order 933, Date 2004-04-12	25
2	Order 934, Date 2004-05-12	9
3	Order 990, Date 2004-06-12	1

The idea behind this is that if a despatch advice refers to one order or contract or despatch note or consignment note the reference is identified at the header level and that then applies to all item lines.

If a despatch advice is referring to more than one order or contract or despatch note or consignment note then the reference is identified at the detail level through the DetailLevelReference.

1.8 Testing

1.8.1 Pass / Fail Criteria

Unit testing criteria for business solution.

Number	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1					
2					
3					

1.8.2 Test Data

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Test data is detailed in section 1.7.

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1.9 Appendices

1.10 Summary of Changes

(Details changes to BMS for each version by BMS Section)

Change	BMS Version	Associated CR Number
•		

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2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:
http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm.

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
    - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
    - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
    - Technical Level GDD Report

Technical Solution Implementers Packet Content:
Contains all the message specific.XSD files required to implement
Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

http://eroom.uc-council.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest
Password: guest

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