

# **Business Message Standard (BMS)**

**for**

**Deliver/LTL (Less Than Truckload)  
Pickup Notification**

**BRG: Deliver**

**BMS Release: 2.0**

**Document Version: 2.0.1**

**Release Date: 31.12.2004**

*(dd.mm.cc.yy)*



### Change Request Reference

<b>Refer to Change Request (CR) Number(s):</b>	
<b>CR Submitter(s):</b>	
<b>Date of CR Submission to GSMP:</b>	

### Business Requirements Document (BRAD) Reference

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<b>BRAD Date:</b> 30.06.2003
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<b>BRAD Title:</b>
<b>BRAD Date:</b>
<b>BRAD Version:</b>

### Document Summary

<b>Document Title:</b>	BMS For Deliver/LTL (Less Than Truckload) Pickup Notification
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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 format	N/A
24.04.2007	2.0.1	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	N/A

# Business Message Standard

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### 1 Business Solution Design

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

The **Payment Terms Extension** Business Requirements Document needs to be modified in order to solve the business needs from the users as identified in the four referenced change requests.

##### 1.1.2 Objective

Provide an enhancement to accommodate discount and net terms that specify a percentage discount, an optional discount amount, and a number of days by which payment must be made to earn the discount, for example, 2% discount in 10 days, net due in 30 days. (CR 02-000116).

Clarify the intended meaning and usage of the attributes “type” and “discountType”. (CR 02-000117).

Allow specification of acceptable methods of payment (e.g. standard check, certified check, electronic funds transfer, letter of credit, no charge) (CR 02-000118).

Allow specification of time of payment with respect to delivery of goods, e.g., before, on, or after delivery (i.e., on credit), or no charge. (CR 02-000119).

##### 1.1.3 Audience

This work was initiated through the BRG Deliver and is intended for North American Motor Carriers and their customers and partners.

##### 1.1.4 Artefacts

Artefact name	State	Artefact / State description

##### 1.1.5 References

Reference Name	Description
Transportation LTL AS-IS Model, Draft 1.2, July 13, 2001	
CR: 01-000066	

### 1.1.6 Acknowledgements

#### 1.1.6.1 BRG Members

Function	Name	Company
BRG Manager	Jamie Rodriguez	UCC
BRG Member	Doug Harness	Fleming Companies, Inc. Vice Chair
BRG Member	Regina A. De Baker	Watkins Associated Industries
BRG Member	Becky Dettling	3M Company
BRG Member	Sue Donarski	Schneider Logistics
BRG Member	K. Wayne Gingerich	Werner Enterprises
BRG Member	Stephanie Hodge-Daniels	Levi Strauss & Co.
BRG Member	Kent Jamison	Consolidated Freightways
BRG Member	Kari Melhus	Target Corporation
BRG Member	Jeff Miller	Kraft Foods, Inc.
BRG Member	Debra Noyes	Johnsonville Sausage, L.L.C.
BRG Member	Mike Osiecki	Best Buy Company, Inc.

#### 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
Participant		
Participant		
Participant		
...		

#### 1.1.6.4 Design Team Members

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

## Business Solution Design

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### 1.2 Business Context

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

### 1.3 Additional Technical Requirements Analysis

#### 1.3.1 Technical Requirements (optional)

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

Number	Statement	Rationale

### 1.4 Business Transaction View

A standard pickup notification for LTL would provide the North American Motor Freight industry an alternative electronic means of communicating advance pickup information to the Carrier from the Shipper, Consignee or 3<sup>rd</sup> Party that a shipment is available for pickup.

Less Than Truckload Pickup Notification is a process by which a record is created that documents the Goods that were collected for shipments.

#### 1.4.1 Business Transaction Use Case Diagram

#### 1.4.2 Use Case Description

Use Case ID	UC-1																
Use Case Name	Notify for pickup																
Use Case Description	A standard pickup notification for LTL would provide the North American Motor Freight industry an alternative electronic means of communicating advance pickup information to the Carrier from the Shipper, Consignee or 3 <sup>rd</sup> Party that a shipment is available for pickup.																
Actors (Goal)	There are three actors in this process, the Carrier, Shipper, and Consignee with another possible actor named 3 <sup>rd</sup> Party. Actors can be people or systems acting upon the use case or connected to it in some way. A use case is generally a representation of actions in a given system (such as pickup notification) that produces an end value.																
Performance Goals	Goals related to technical requirements																
Preconditions	The trading partners (that utilize carriers) must have completed all planning and have a signed agreement in place.																
Post conditions	The Seller receives an item, order or request for payment message using payment terms extension and sends an acknowledgement as receipt of the message to the buyer or seller depending on the transaction.																
Scenario	<div>Begins when... goods are ready and/or scheduled to be picked up.</div> <div>Continues with...</div> <table><thead><tr><th></th><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td>Goods ready and/or scheduled to be picked up.</td></tr><tr><td>2</td><td></td><td></td><td>Shipper, Consignee or 3<sup>rd</sup> Party notifies Carrier for pickup</td></tr><tr><td>3</td><td></td><td></td><td>Carrier receives notification for pickup.</td></tr></tbody></table>		Step #	Actor	Activity Step	1			Goods ready and/or scheduled to be picked up.	2			Shipper, Consignee or 3 <sup>rd</sup> Party notifies Carrier for pickup	3			Carrier receives notification for pickup.
	Step #	Actor	Activity Step														
1			Goods ready and/or scheduled to be picked up.														
2			Shipper, Consignee or 3 <sup>rd</sup> Party notifies Carrier for pickup														
3			Carrier receives notification for pickup.														



	<p>4</p> <p><b>Ends when...</b> the Consignee, Shipper, or 3<sup>rd</sup> Party receives the Acknowledgment Message from the Carrier (The acknowledgment is indicated as the end-state but is optional). The acknowledgment is considered a process unto itself and is utilized by this process and others. Acknowledgment will be addressed in another BRD.</p>
<b>Alternative Scenario</b>	<p><i>(any alternatives to the above scenario)</i></p> <p><b>None</b></p> <p><b>Step #</b> <b>Actor</b> <b>Activity Step</b></p>
<b>Related Requirements</b>	<p><b>None</b></p> <p>1</p>
<b>Related Rules</b>	<p><i>Business rules associated with use case.</i></p> <p><b>None</b></p>

### 1.4.3 Business Transaction Activity Diagram(s)

### 1.4.4 Business Transaction Sequence Diagram(s) (optional)

## Business Solution Design

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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 REQUIREMENT
DeliverLocationInformation				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2
		contactInformation	Contact	
			NameAndAddress	
			PartyIdentification	
DeliverReference				
	deliverReferenceIdentification			
	deliverReferenceType			
DestinationLocation				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2
	deliveryDate			
		locationInformation	DeliverLocationInformation	
Document				
	contentVersion			
	creationDate			
	documentStatus			
	documentStructureVersion			
	lastUpdateDate			
EntityIdentification				
	uniqueCreatorIdentification			
		contentOwner	PartyIdentification	
LooseQuantity				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
	loosePackageForm			
	quantity			
MasterHandlingUnitQuantity				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2
	packageFormUnitHandling			
	quantity			
PartyIdentification				
	globalLocationNumber			
			AdditionalPartyIdentification	
PickupNotificationLTL				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2
	closedDockTime			
	earliestPickupDateTime			
	openDockTime			
	specialService			
	timeReady			
	totalGrossWeight			
	volume			
		shipFrom	DeliverLocationInformation	
		ITLReferenceIdentification	DeliverReference	
		shipTo	DestinationLocation	
			Document	
		pickupNotificationLTLIdentification	EntityIdentification	
			LooseQuantity	
			MasterHandlingUnitQuantity	
		carrier	PartyIdentification	
			TradeItemHazardousInformation	

## Business Solution Design

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CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	RELATED REQUIREMENT
TradeltemHazardousIn- formation				LTL Pickup Notification – Business Re-quirement Document Version 1.2.2
	classOfDangerousGoods			
	dangerousGoodsAMarginNumber			
	dangerousGoodsHazardousCode			
	dangerousGoodsPackingGroup			
	dangerousGoodsRegulationCode			
	dangerousGoodsShippingName			
	unitedNationsDangerous- GoodsNumber			
		dangerousGoodsTechnical- Name	MultiLongDescription	
		flashPointTemperature	MultiMeasurementValue	

## Business Solution Design

### 1.6 GDD Report :

(Output from GDD should be pasted in this section.)

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
DeliverLocationIn- formation				Deliver_ Location. Details	!! This class originates from Deliver Common. This class has two mandatory roles of 'ship From' and 'location Information'. This class has a mandatory association to 'Name And Address' class which supplies the ship from and ship to name and address information.	
		contactInformation	Contact	Deliver_ Location. Association. Contact	n.a	0..*
			NameAndAddress	Deliver_ Location. Association. Party Address Group	n.a	1..1
			PartyIdentification	Deliver_ Location. Association. Party Identification	n.a	0..1
DeliverReference				Deliver_ Entity Reference. Details	Number used to reference package or shipment for the purposes of status inquiry.	
	deliverReferencel- dentification			Deliver_ Entity Reference. Deliver Reference_ Identification. Text	n.a.	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
	deliverReferenceType			Deliver_ Entity Reference. Deliver Reference_ Type. Deliver Reference_ Code	n.a.	1..1
DestinationLocation				Destination_ Delivery. Details	n/a	
	deliveryDate			Destination_ Delivery. Delivery_ Date. Date Time	!! Date	1..1
		locationInformation	DeliverLocationInformation	Destination_ Delivery. Association. Deliver_ Location	N/A	1..1
Document				Electronic_ Document. Details	Used to specify basic information about the content of the message including version number; creation date and time.	
	contentVersion			Electronic_ Document. Content_ Version. Identifier	N/A	0..1
	creationDateTime			Electronic_ Document. Creation_ Date. Date Time	N/A	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
	documentStatus			Electronic_ Document. Status. Identifier	Indicates if the document is a copy or an original.	1..1
	documentStruc- tureVersion			Electronic_ Document. Document Structure_ Version. Identifier	N/A	0..1
	lastUpdateDate			Electronic_ Document. Last Update_ Date. Date Time	N/A	0..1
EntityIdentification				Entity Identification. De- tails	The unique identification of a document.	
	uniqueCreatorIden- tification			Entity Identification. Identi- fication. Identifier	N/A	1..1
		contentOwner	PartyIdentification	Entity Identification. Con- tent Owner. Party Identi- fication	N/A	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
LooseQuantity				Loose_ Transport Quantity. Details	!! Loose Quantity class is optional. If loose quantity exists; then there will also be a quantity represented in integer and a loose package form code associated to that quantity.	
	loosePackageForm			Loose_ Transport Quantity. Packaging. Loose Package Form_ Code	N/A	1..1
	quantity			Loose_ Transport Quantity. Quantity. Quantity	!! Number of units of product or service.	1..1
MasterHandlingUnitQuantity				Master Handling Unit_ Transport Quantity. Details	!! Master Handling Unit Quantity class is optional. If master handling unit quantity exists; then there will also be a quantity represented in integer and a package form code handling unit associated to that quantity.	
	packageFormUnitHandling			Master Handling Unit_ Transport Quantity. Packaging. Handling Package Form_ Code	N/A	1..1
	quantity			Master Handling Unit_ Transport Quantity. Quantity. Quantity	Number of units of product or service	1..1



## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
PartyIdentification				Party Identification. De- tails	Unique location number identi- fying the Party for which the rest of the message defines.	
	globalLocation- Number			Party Identification. Pri- mary_ Identification. GLN_ Identifier	!! The Global Location Number (GLN) is a structured Identifica- tion of a physical location, legal or functional entity within an enterprise. The GLN is the rec- ommended primary party identi- fier. Each party identified in the trading relationship must have a primary party Identification. We recommend use of GLN. How- ever, we have allowed for use of alternate party identification for transition.	1..1
			AdditionalParty- Identification	Party Identification. Addi- tional. Non GLN_ Party Identification	C	0..*
PickupNotifica- tionLTL				Less Than Truck Load_ Pickup Notification. De- tails	!! This is the root class for the Pickup Notification LTL Mes- sage.	
	closedDockTime			Less Than Truck Load_ Pickup Notification. Closed_ Dock Time. Date Time	!! Closing time of the ship from location's dock.	0..1
	earliestPickup- DateTime			Less Than Truck Load_ Pickup Notification. Earli- est_ Pickup Time. Date Time	!! Earliest pickup date and time for the LTL Pickup Notification.	0..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multiplicity
	openDockTime			Less Than Truck Load_Pickup Notification. Open_Dock Time. Date Time	!! Opening time of the ship from location's dock.	0..1
	specialService			Less Than Truck Load_Pickup Notification. Special Service. Special Service_Code	N/A	0..*
	timeReady			Less Than Truck Load_Pickup Notification. Ready Time. Date Time	!! This ship from location's TBD time.	0..1
	totalGrossWeight			Less Than Truck Load_Pickup Notification. Total Gross_Weight. Weight_Measure	N/A	1..1
	volume			Less Than Truck Load_Pickup Notification. Volume. Volume_Measure	N/A	0..1
		shipFrom	DeliverLocationInformation	Less Than Truck Load_Pickup Notification. Ship From. Deliver_Location	N/A	1..1
		ITLReferencidentification	DeliverReference	Less Than Truck Load_Pickup Notification. Association. Deliver_Entity Reference	N/A	0..*
		shipTo	DestinationLocation	Less Than Truck Load_Pickup Notification. Ship To. Destination_Delivery	N/A	1..*

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
			Document	Less Than Truck Load_ Pickup Notification. In- heritance_ Association. Electronic_ Document	N/A	1..1
		pickupNotifica- tionLTLIdentifica- tion	EntityIdentification	Less Than Truck Load_ Pickup Notification. Ident- ification. Entity Identifica- tion	!! Provides a unique identifica- tion to the Pickup Notification LTL message.	1..1
			LooseQuantity	Less Than Truck Load_ Pickup Notification. As- sociation. Loose_ Trans- port Quantity	N/A	0..1
			MasterHandlin- gUnitQuantity	Less Than Truck Load_ Pickup Notification. As- sociation. Master Han- dling Unit_ Transport Quantity	N/A	0..1
		carrier	PartyIdentification	Less Than Truck Load_ Pickup Notification. Car- rier. Party Identification	N/A	1..1
			TradeltemHazard- ousInformation	Less Than Truck Load_ Pickup Notification. As- sociation. Hazardous Goods	N/A	0..*
TradeltemHazard- ousInformation				Hazardous Goods. De- tails	!! This reusable class is part of the Trading Partner Neutral Trade Item Information Class.	

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
	classOfDangerousGoods			Hazardous Goods. Class Identifier	!! Dangerous goods classification of the trade item. There are 9 danger classes; some classes are further subdivided into subclasses. "Class" number explains in general terms the nature and properties of the goods and serves to classify them together in terms of their most significant risk.	1..1
	dangerousGoodsAMarginNumber			Hazardous Goods. A Margin Number. Integer_Numeric	!! Information; whether for the base trade item or further packaging trade item a dangerous goods a-margin number does exist in the European dangerous goods agreements (and in the respective national dangerous goods legislation); thus facilitations for the transport of defined limited quantity by road or rail are possible or not. If they are possible; they must be indicated; whether they are used by the data supplier.	1..1

## Business Solution Design

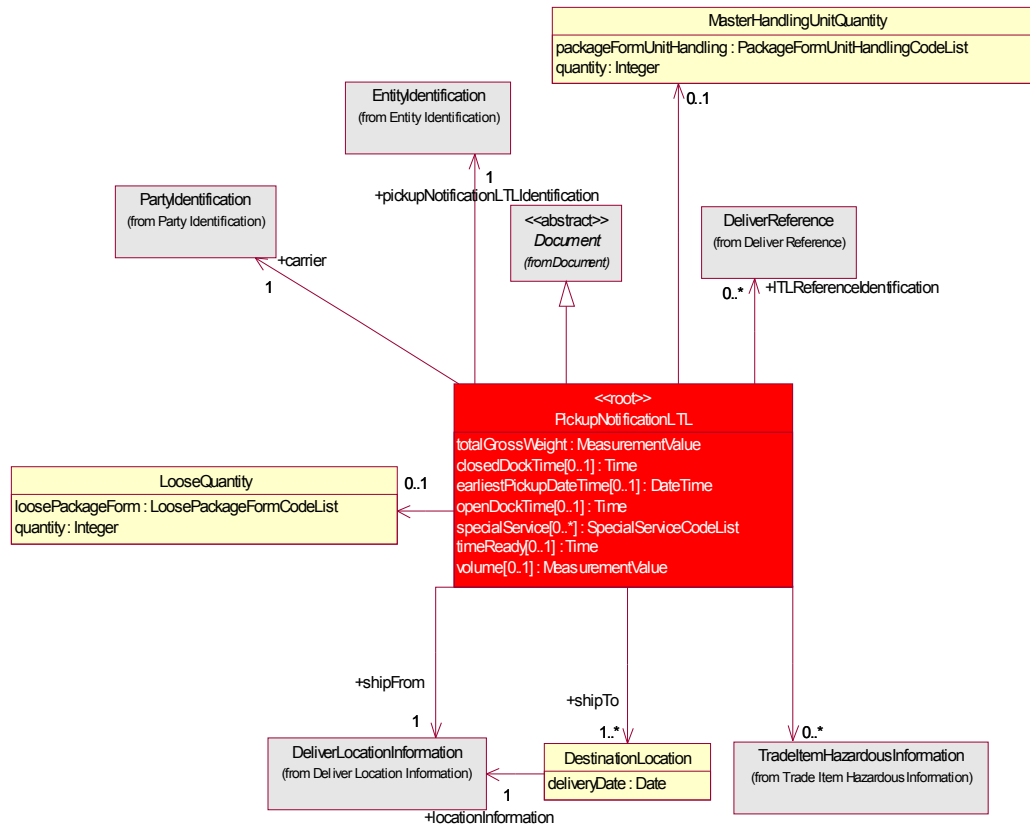
CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
	dangerousGood- sHazardousCode			Hazardous Goods. Haz- ard. Identifier	Dangerous goods hazard ID number; which must be applied to the vehicle; when transport- ing this trade item (dangerous good) by road or rail; to inform the police; the fire brigade and others in case of an accident about the kind of danger caused by the cargo.	1..1
	dangerous- GoodsPacking- Group			Hazardous Goods. Pack- ing Group. Identifier	!! Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regula- tions.	1..1
	dangerousGoods- RegulationCode			Hazardous Goods. Regu- lation. Identifier	!! Code indicating the classifica- tion system(s) of dangerous goods and/or the Agency(ies) responsible for it.	1..1
	dangerous- GoodsShipping- Name			Hazardous Goods. Ship- ping_ Name. Text	Shipping name of the trade item (dangerous goods). The recog- nized agencies (see danger- ousGoodsRegulationsCodes); in their regulations; provide a list of all acceptable proper shipping names.	1..1

## Business Solution Design

CLASS (ABIE)	ATTRIBUTE (BBIE)	ASSOCIATION (ASBIE)	SECONDARY CLASS	Official Dictionary Entry Name	Definition	Multi- plicity
	unitedNationsDangerousGoodsNumber			Hazardous Goods. United Nations_ Class. Identifier	!! The four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to classify a substance or a particular groups of substances. Abbreviation: UNDG Number.	1..1
		dangerousGoodsTechnicalName	LongTextDescription	Hazardous Goods. Technical_ Name. Long_ Multi-language Description	Chemical term of the trade item; listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item; please use the specific definition of this data type and field; 1-200; as defined in the Trade Item BRD.	1..1
		flashPointTemperature	Measurement	Hazardous Goods. Flash Point_ Temperature. Multi-unit Measure	The lowest temperature at which a substance gives off a sufficient vapour to support combustion. This uses a measurement consisting of a unit of measure and value.	1..1

## Business Solution Design

### 1.6.1 Class Diagrams



## Business Solution Design

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### 1.6.2 Code Lists

*(Note: Code Lists are taken from the GDD though a GDD report.)*

Code List Name	Code List Description
SpecialServiceCodeList	n.a
Code Name	Code Description
INSIDE_PICK_UP	n.a
LIFT_GATE_AT_ORIGIN	n.a

Code List Name	Code List Description
LoosePackageFormCodeList	n.a
Code Name	Code Description
BOX	n.a
CARTON	n.a
PIECES	n.a



## Business Solution Design

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Code List Name	Code List Description
PackageFormUnitHandlingCodeList	n.a
Code Name	Code Description
PALLET	n.a
SKID	n.a
SLIP_SHEET	n.a

## Business Solution Design

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### 1.7 Business Document Example

### 1.8 Implementation Considerations

### 1.9 Testing

#### 1.9.1 Pass / Fail Criteria

*Unit testing criteria for business solution.*

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

#### 1.9.2 Test Data

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## Business Solution Design

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### 1.10 Appendices

### 1.11 Summary of Changes

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

Change	BMS Ver- sion	Associated CR Number
•		

### 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](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.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0\\_14f7](http://eroom.uncouncil.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