Business Message Standard (BMS)

Despatch Advice Line Item Extension eBmeat

BMS Release: 3.0.0, BRG Name: eCom

Issue 1.0.0, 13-Jan-2012

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Despatch Advice Line Item Extension eBmeat
BMS Release	3.0.0
BRG Name	eCom
Document Number	Issue 1.0.0
Date Last Modified	13-Jan-2012
Status	Approved
Owner	eCom BRG
BMS Template Version	1.9

Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
10 Sep 2004	Bruno Julien GS1 France Frank Kuhlmann GS1 Germany	04-000177 (02-000195)

Business Requirements Document (BRAD) Reference

BRAD Title:	BRAD Date:	BRAD Version
BRD Exchange Traceability and Processing History Data of Beef Products (Slaughter to Retail)	14 Mar 2005	2.5.1

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
13-Jan-2012	1.0.0	Mark Van Eeghem	BMS Publication for Release 3.0.0	See Summary of Changes	Not Applicable

Disclaimer

Table of Contents

1. Business Domain View

1.1. Problem Statement / Business Need

No global recommendation for the traceability of unprepared beef by using AIDC and EDI in an efficient and effective way; how to link the physical and information flow in the beef supply chain (slaughter to retail).

No general understanding of beef-specific terms and requirements for unprepared beef; where these exist, they are national and ill-suited to international trade/e-commerce.

1.2. Objective

The objectives of this extension are:

- Describe the exchange of production history data of unprepared beef in order to support traceability and quality management.
- Creation of UML-based business models for the global beef supply chain (slaughter to retail) using Rational Rose as a modeling tool, and involving beef trading partners and users, to better enable *tracking & tracing* (henceforth referred to in this context as "**traceability**") of beef products.
- Definition of beef-specific terms for the GS1 Global Data Dictionary.

1.3. Audience

- Slaughterhouse
- Post-Slaughter Processor
- Wholesaler
- Retailer
- Service Provider [Carrier/Logistic Service Provider] (to be expanded on in a future project)

1.4. References

Reference Number	Reference Name	Description
[Ref1]	BRD Exchange Traceability and Processing History Data of Beef Products (Slaughter to Retail)	
[Ref2]	BRAD Upstream Standards – Despatch, Receipt & Consumption 0.1.1	
[Ref3]	BRD Despatch Advice 1.0.9.3	
[Ref4]	EANCOM®-1997 (UN/EDIFACT D.96A)	
[Ref5]	EANCOM®-2002 (UN/EDIFACT D.01B)	

Reference Number	Reference Name	Description
[Ref6]	Simpl-eb Principles EAN.UCC Business Message Standards July 2001 (Simpl-eb and FMCG extension)	
[Ref7]	EbXML Core Components technical specification Version 1.8	
[Ref8]	EbXML Core Component Catalogue Feb 2002	
[Ref9]	UMM R8D and UMM N90 R10 (UN/CEFACT)	
[Ref10]	eCom Domain Common Library	
[Ref11]	Shared Common Library	
[Ref12]	GS1 General Specifications	
[Ref13]	GS1 Traceability Implementation ("TRACE-I")	
[Ref14]	GCI-Glossary	
[Ref15]	Project proposal eBmeat	
[Ref16]	Traceability of beef (GS1)	
[Ref17]	Stage3OnFarmProject (Australia)	
[Ref18]	EANEDI Model 5A (Australia)	
[Ref19]	EMEG-EDI Data Dictionary	
[Ref20]	UN/ECE standard for bovine carcass and cuts	
[Ref21]	UMM R8D and UMM N90 R10 (UN/CEFACT)	
[Ref22]	PRODAT / Übermittlung von Stammdaten/Qualitätsdaten zur Rindfleischherkunft mit EANCOM® (Germany)	
[Ref23]	DESADV Profil Boucherie (France)	

1.5. Acknowledgements

1.5.1. Work Group

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Function	Name	Company / organisation
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1.5.2. Design Team Members

Function	Name	Organisation
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XML Technical Designer	Dipan Anarkat	GS1 Global Office
Peer Reviewer	John Ryu / Eric Kauz	GS1 Global Office

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Deliver
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

The extension for the "**Exchange Traceability and Processing History Data of Beef Products (Slaughter to Retail)"** details the data needed to be used in conjunction with the Despatch Advice message.

The team was chartered to define the business requirements and this has been achieved by providing data definitions and UML-model for the exchange of traceability and processing history data of unprepared beef products (slaughter to retail).

Note that this model can be used as a basis for other tasks regarding traceability and/or processing history of products.

4.1. Business Transaction Use Case Diagram

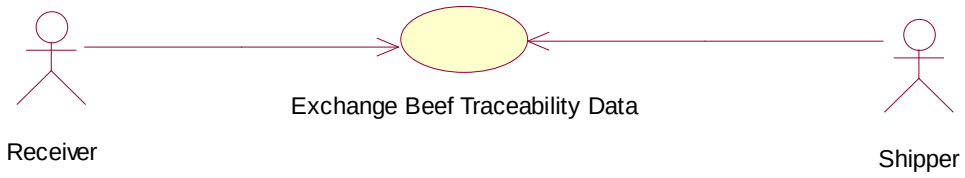


Figure 1 – Use Case Diagram: Business Transaction

4.2. Use Case Description

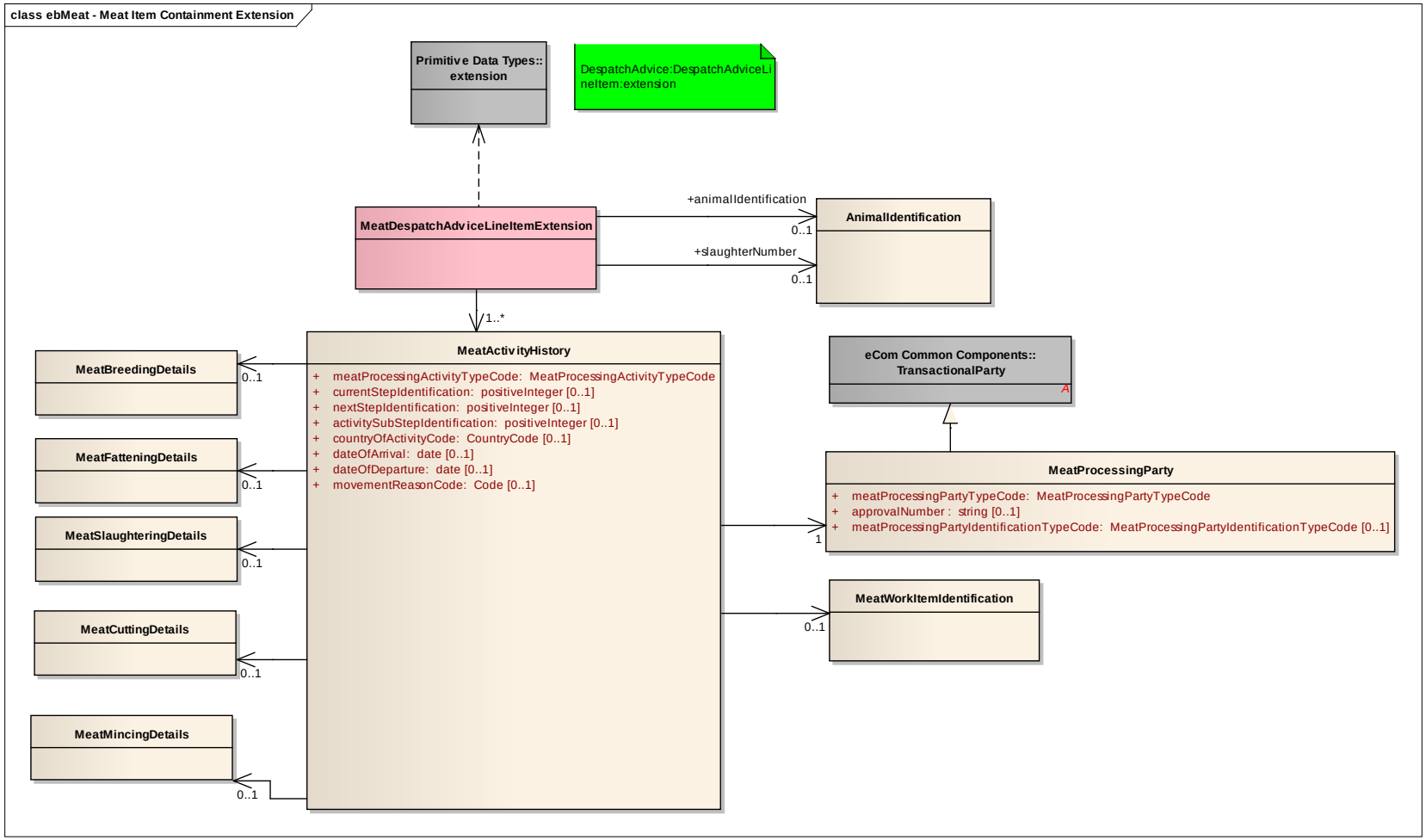
<table>
<tr><td>Use Case ID</td><td>UC-1</td></tr>
<tr><td>Use Case Name</td><td>Exchange Beef Traceability Data</td></tr>
<tr><td>Use Case Description</td><td>Exchange beef history data and beef product despatch information in order to support traceability and quality management.</td></tr>
<tr><td>Actors (Goal)</td><td>• Shipper (Slaughterhouse; Post-Slaughter Processor, Wholesaler)
• Receiver (Post-Slaughter Processor, Wholesaler, Retailer)</td></tr>
<tr><td>Performance Goals</td><td>None</td></tr>
<tr><td>Preconditions</td><td>• A trading agreement (including alignment of master data, payment and delivery terms) has been established between Seller and Buyer.
• A valid order from the Buyer has been received and accepted.
• Traceability data for product(s) ordered have been compiled and prepared for exchange by the Shipper.
• The beef products are uniquely identified.</td></tr>
<tr><td>Post conditions</td><td>• Receiver has been supplied with traceability data for beef product(s) which he is to receive.
• Place, time and conditions for delivery have been communicated.</td></tr>
<tr><td>Scenario</td><td>Begins when the Shipper secures in his local storage medium the traceability data of beef product(s).
Continues with:
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>1.</td><td>Shipper</td><td>Shipper sends the Receiver traceability data of beef products to be delivered.</td></tr>
<tr><td>2.</td><td>Receiver</td><td>Receiver receives this traceability data.</td></tr>
<tr><td>3.</td><td>Receiver</td><td>Receiver cross-checks traceability data with physical delivery.</td></tr>
<tr><td>4.</td><td>Receiver</td><td>Receiver adds internal information to traceability data, where applicable.</td></tr>
</table>
Ends when the Receiver secures the traceability data in his local storage medium.</td></tr>
<tr><td>Alternative Scenario</td><td>A discrepancy exists between traceability data and the physical delivery. (Must be addressed in a separate project.)</td></tr>
<tr><td>Business Transaction Rules</td><td>None</td></tr>
</table>

4.3. Business Transaction Activity Diagram(s)

5. Information Model (Including GDD Reports)

5.1. Message

5.1.1. Class Diagram: Meat Despatch Advice Line Item Extension



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 common information.

5.1.2. GDD Report: MeatDespatchAdviceLineItemExtension

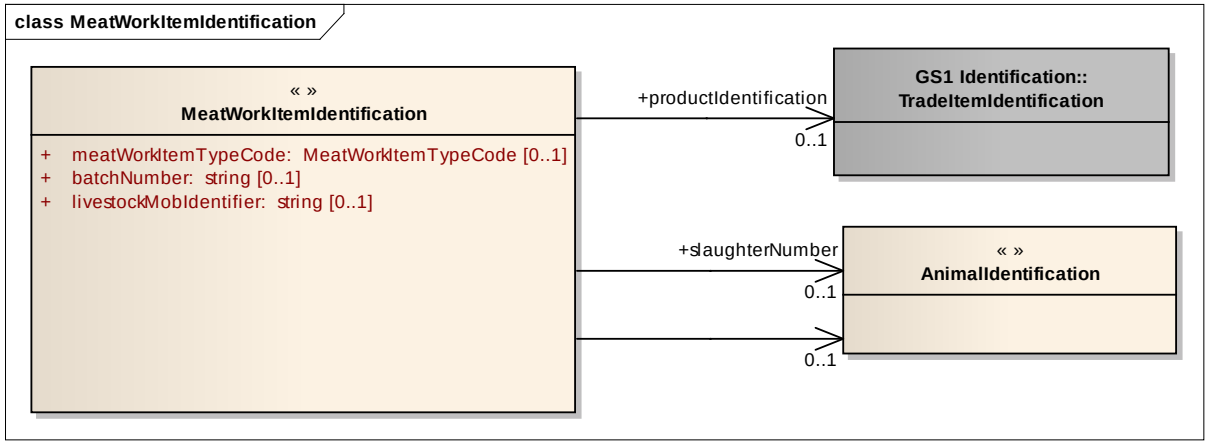
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeatDespatchAdviceLineItemExtension				An extension to the Despatch Advice Document used to enable tracking & tracing (traceability) of beef products.	
Association	animalIdentification	AnimalIdentification	0..1	Unique number given by a competent national authority to identify an animal individually.	
Association	slaughterNumber	AnimalIdentification	0..1	Unique number given by a slaughterhouse to an animal.	
Association		MeatActivityHistory	1..*	Details on the meat processing activities that were carried out.	
Dependency		extension			
MeatActivityHistory				Information on the meat processing undertaken at a given point.	
Association		MeatSlaughteringDetails	0..1	Information on the meat slaughtering activity.	
Association		MeatMincingDetails	0..1	Information on the mincing activity.	
Association		MeatCuttingDetails	0..1	Information on the cutting activity.	
Association		MeatFatteningDetails	0..1	Information on the fattening activity.	
Association		MeatBreedingDetails	0..1	Information on the breeding activity.	
Association		MeatProcessingParty	1..1	Information on the party that carried out the meat processing activity.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		MeatWorkItemIdentification	0..1	Information on the work item created as a result of the meat processing activity.	
Attribute	meatProcessingActivityTypeCode	MeatProcessingActivityTypeCode	1..1	Code specifying the type of meat processing undertaken at a given point.	
Attribute	currentStepIdentification	positiveInteger	0..1	Cardinal sequence of the current processing activity, in relation to the processing history.	
Attribute	nextStepIdentification	positiveInteger	0..1	Cardinal sequence of the subsequent processing activity, in relation to the processing history.	
Attribute	activitySubStepIdentification	positiveInteger	0..1	Identification for an activity within a multi-step meat process.	renamed from processingActivityStep, made 0..1
Attribute	countryOfActivityCode	CountryCode	0..1	Country where the meat processing takes place.	
Attribute	dateOfArrival	date	0..1	Date when the animal arrives ata new location.	
Attribute	dateOfDeparture	date	0..1	Date when the animal is departing to another location.	
Attribute	movementReasonCode	Code	0..1	Code specifying the reason for the animal’s transfer to another location.	
MeatProcessingParty				Information on a party undertaking a meat processing activity.	renamed from PerformerInformation
Generalization		TransactionalParty		Identification and name and address details of the meat processing party.	
Attribute	meatProcessingPartyTypeCode	MeatProcessingPartyTypeCode	1..1	Code specifying the type of party processing the meat. Example: Mincer.	renamed from performerType

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	approvalNumber	string	0..1	Veterinary licence number allocated by a national authority.	
Attribute	meatProcessingPartyIdentificationTypeCode	MeatProcessingPartyIdentificationTypeCode	0..1	Code specifying the type of identification to be applied for the meat processing party.	renamed from performerIdentificationType

5.2. Components

5.2.1. Class Diagram: Meat Work Identification

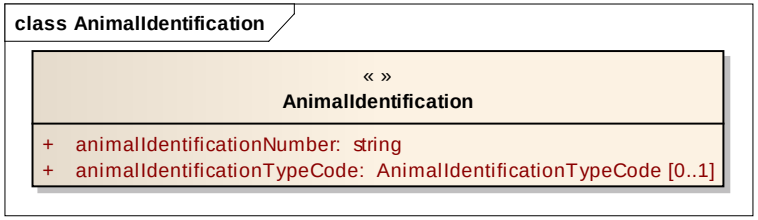


5.2.2. GDD Report: MeatWorkItemIdentification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeatWorkItemIdentification				renamed from WorkItemIdentification	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Association		AnimalIdentification	0..1	Unique number given by a competent national authority to identify an animal individually.	
Association	slaughterNumber	AnimalIdentification	0..1	Unique number given by a slaughterhouse to an animal.	
Association	productIdentification	TradeItemIdentification	0..1	Product identification of the meat work item.	
Attribute	meatWorkItemTypeCode	MeatWorkItemTypeCode	0..1	Code specifying the type of meat work item.	
Attribute	batchNumber	string	0..1	A number that identifies a quantity of a product produced under similar conditions i.e. at one location, at one time and according to specific business rules.	
Attribute	livestockMobIdentifier	string	0..1	A collection of like breeds of livestock animals. Usually the livestock is moveable as a group.	

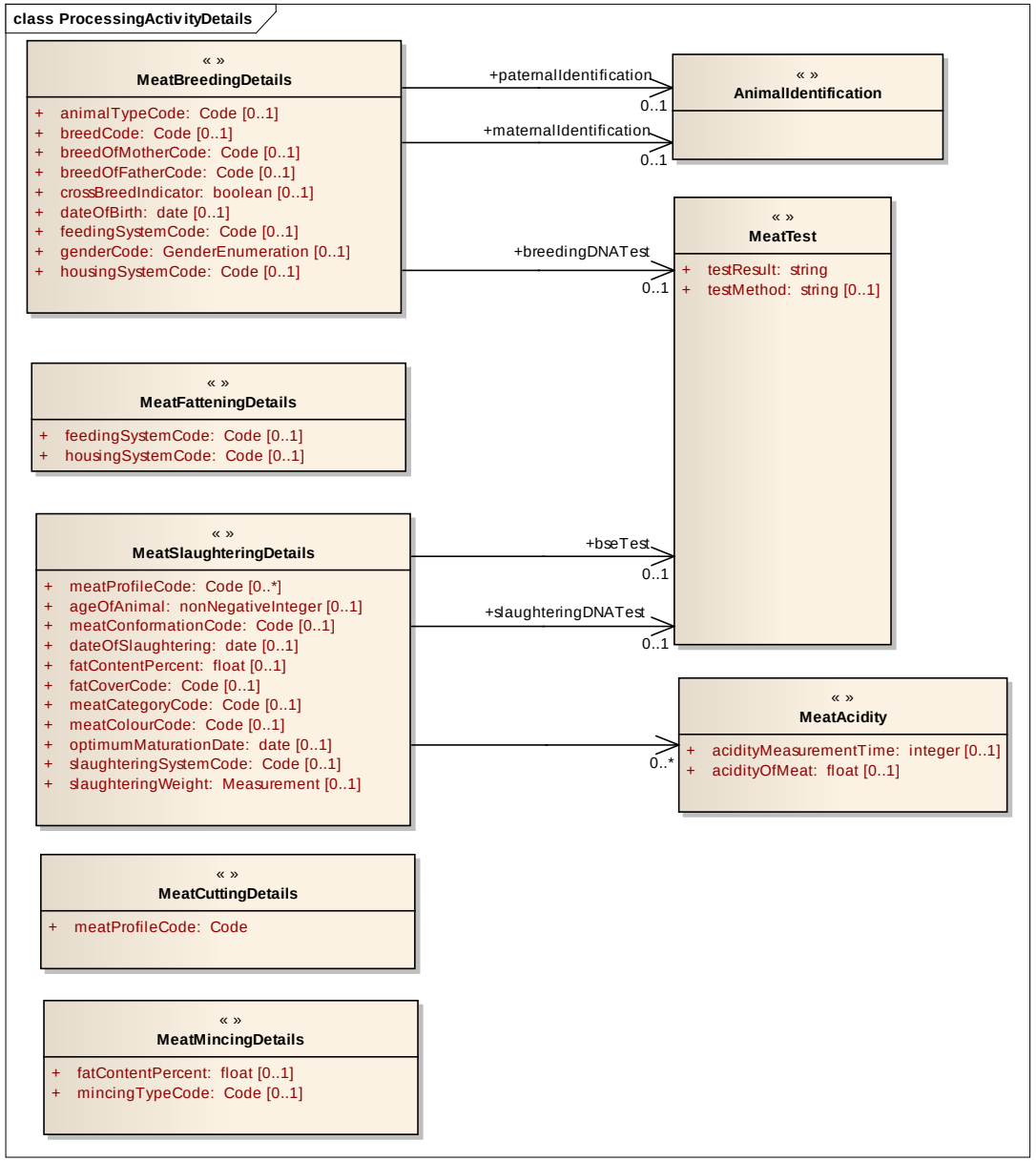
5.2.3. Class Diagram: Animal Identification



5.2.4. GDD Report: Animal Identification

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AnimalIdentification				Unique number given by a competent national authority to identify an animal individually.	
Attribute	animalIdentificationNumber	string	1..1	Identification Number for a given animal.	
Attribute	animalIdentificationTypeCode	AnimalIdentificationTypeCode	0..1	Nature of the Identification Number.	

5.2.5. Class Diagram: Processing Activity Details



5.2.6. GDD Report: Processing Activity Details

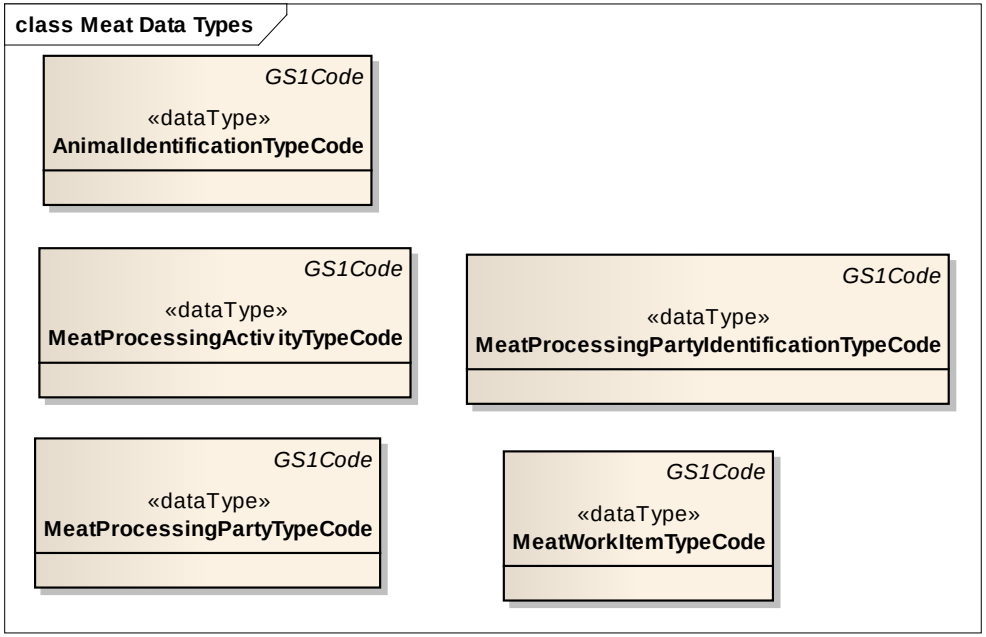
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeatBreedingDetails				Information on the breeding of the meat being processed.	
Association	breedingDNATest	MeatTest	0..1	DNA test used during breeding.	
Association	paternalIdentification	AnimalIdentification	0..1	Identification of the father of the animal.	
Association	maternalIdentification	AnimalIdentification	0..1	Identification of the mother of the animal.	
Attribute	animalTypeCode	Code	0..1	Code specifying the type of animal.	
Attribute	breedCode	Code	0..1	Code specifying the breed of the animal.	
Attribute	breedOfMotherCode	Code	0..1	Code specifying the breed of the mother.	
Attribute	breedOfFatherCode	Code	0..1	Code specifying the breed of the father.	
Attribute	crossBreedIndicator	boolean	0..1	Indicates an animal stemming from parents of different breeds, where the breed of only one parent is known.	renamed from crossBreedCode
Attribute	dateOfBirth	date	0..1	Birth date/time of the animal.	
Attribute	feedingSystemCode	Code	0..1	Code specifying the method of the feeding/fattening.	
Attribute	genderCode	GenderEnumeration	0..1	Code specifying the gender of the animal.	
Attribute	housingSystemCode	Code	0..1	Code specifying the type of housing/holding of the animal.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeatCuttingDetails				Information on the cutting of the meat being processed.	
Attribute	meatProfileCode	Code	1..1	Code specifying the cutting profile according to a specific and official quality system.	
MeatFatteningDetails				Specifies details regarding the method of the feeding/fattening (e.g., only milk, grass/hay, grass/hay and other plant products without performance increasing additives, grass/hay and other plant products with performance increasing additives).	
Attribute	feedingSystemCode	Code	0..1	Code specifying the method of the feeding/fattening.	
Attribute	housingSystemCode	Code	0..1	Code specifying the type of housing/holding of the animal.	
MeatAcidity				Contains details regarding the test and results of a meat's acid quality or condition.	
Attribute	acidityMeasurementTime	integer	0..1	Point in time when the pH-value is measured.	
Attribute	acidityOfMeat	float	0..1	The meat's acid quality or condition, expressed as a pH value.	
MeatMincingDetails				Provides details regarding the process of cutting meat into very small pieces using a meat grinder.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	fatContentPercent	float	0..1	Numeric value specifying the percentage of fat content in the minced meat.	renamed from fatPercentOfMincedMeat
Attribute	mincingTypeCode	Code	0..1	Code specifying the type of mincing of the meat.	
MeatSlaughteringDetails				Information on the slaughtering of an animal as part of the meat processing process.	
Association		MeatAcidity	0..*	Information on the acidity of the meat.	
Association	slaughteringDNATest	MeatTest	0..1	DNA test used at slaughtering.	
Association	bseTest	MeatTest	0..1	BSE test is used to determine whether the animal has been tested or not.	
Attribute	meatProfileCode	Code	0..*	Code specifying the meat profile according to a specific and official quality system.	
Attribute	ageOfAnimal	nonNegativeInteger	0..1	Age of the animal, in months, on the day of its slaughter.	
Attribute	meatConformationCode	Code	0..1	Code specifying the quality of the meat at the carcass.	renamed from conformation
Attribute	dateOfSlaughtering	date	0..1	The date on which the animal was slaughtered.	
Attribute	fatContentPercent	float	0..1	An indication of the fat content percentage of the slaughtered animal.	renamed from fatContent
Attribute	fatCoverCode	Code	0..1	Code specifying the external fat thickness/level of the animal.	

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
Attribute	meatCategoryCode	Code	0..1	Classification of meat in terms of gender and or age of the animal from which it is derived.	renamed from categoryOfMeat
Attribute	meatColourCode	Code	0..1	Code specifying the colour of the meat.	renamed from colourOfMeat
Attribute	optimumMaturationDate	date	0..1	Date at which optimal maturity occurs.	
Attribute	slaughteringSystemCode	Code	0..1	Code specifying the tools, methods and practices used for the slaughter.	
Attribute	slaughteringWeight	Measurement	0..1	Warm weight after slaughter.	
MeatTest				Information on the test performed on the animal product.	
Attribute	testResult	string	1..1	Result of the test performed on the animal product.	
Attribute	testMethod	string	0..1	The nature of the test performed on the animal product.	

5.2.7. Class Diagram: Data Types



5.2.8. GDD Report: Data Types

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
AnimalIdentificationTypeCode				Code specifying an animal identification type. Allowed code values are specified in GS1 Code List AnimalIdentificationTypeCode.	
Generalization		GS1Code			
MeatProcessingActivityTypeCode				Code specifying a meat processing activity type. Allowed code values are specified in GS1 Code List MeatProcessingActivityTypeCode.	
Generalization		GS1Code			

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition	Requirements
MeatProcessingPartyIdentificationTypeCode				Code specifying a meat processing party identification type. Allowed code values are specified in GS1 Code List MeatProcessingPartyIdentificationTypeCode.	
Generalization		GS1Code			
MeatProcessingPartyTypeCode				Code specifying a meat processing party type. Allowed code values are specified in GS1 Code List MeatProcessingPartyTypeCode.	
Generalization		GS1Code			
MeatWorkItemTypeCode				Code specifying a meat work item type. Allowed code values are specified in GS1 Code List MeatWorkItemTypeCode.	
Generalization		GS1Code			

5.3. Code Lists

5.3.1. AnimalIdentificationTypeCode

GS1 Code List	AnimalIdentificationTypeCode
GS1 Code List Version	R1 (September 2011)
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a

Code Value	Code Name	Code Definition
ALTERNATE_IDENTIFIER	Alternate identifier	Not available
EARTAG_NUMBER	Eartag number	Not available

5.3.2. MeatProcessingActivityTypeCode

GS1 Code List	MeatProcessingActivityTypeCode
GS1 Code List Version	R1 (September 2011)
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a

Code Value	Code Name	Code Definition
BREEDING	Breeding	Not Available
CUTTING	Cutting	Not Available
FATTENING	Fattening	Not Available
MINCING	Mincing	Not Available
SLAUGHTERING	Slaughtering	Not Available

5.3.3. MeatProcessingPartyIdentificationTypeCode

GS1 Code List	MeatProcessingPartyIdentificationTypeCode
GS1 Code List Version	R1 (September 2011)
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a

Code Value	Code Name	Code Definition
ADDRESS	Address	Not Available
APPROVAL_NUMBER	Approval number	Not Available
GLN	GLN	Global Location Number

5.3.4. MeatProcessingPartyTypeCode

GS1 Code List	MeatProcessingPartyTypeCode
GS1 Code List Version	R1 (September 2011)
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a

Code Value	Code Name	Code Definition
BREEDER	Breeder	Not Available
CUTTER	Cutter	Not Available
FATTENER	Fattener	Not Available
MINCER	Mincer	Not Available
SLAUGHTERER	Slaughterer	Not Available

5.3.5. MeatWorkItemTypeCode

GS1 Code List	MeatWorkItemTypeCode
GS1 Code List Version	R1 (September 2011)
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a

Code Value	Code Name	Code Definition
ANIMAL	Animal	Not Available
CARCASS	Carcass	Not Available
MEAT	Meat	Not Available
TRADE_ITEM	Trade item	Not Available

5.3.6. Other Code Lists

Reference Shared Common Library Business Message (BMS) Release 3.0.0 and eCom Domain Common Library Business Message (BMS) Release 3.0.0 for the Code Lists listed below.

Class	Codelist	Referenced in
MeatActivityHistory	CountryCode	Shared Common Library Business Message (BMS) Release 3.0.0
MeatBreedingDetails	GenderEnumeration	Shared Common Library Business Message (BMS) Release 3.0.0

6. Business Document Example

The examples describe show the information flow within the beef supply chain from the slaughterhouse to the retailer. The **example** is related to the origin and processing history of the product(s).

6.1. Example (Origin and production history)

Example A describes two different scenarios. Both scenarios are covered by this extension. The usage is strongly dependent on the specific business context. The business partners involved have to agree on one of the following scenarios.

In scenario 1 the business partner receives aggregated detailed information of the origin and processing history of each animal which is used for the meat product, e.g. animal ID of mother and father of each animal.

In scenario 2 the partner receives a limited set of information of the origin and processing history, e.g. country of birth for all the animals which are used for the respective meat product.

6.2. Scenario 1: Aggregated detailed origin and production history

Process step 1: Producer

Address of the producer:
Name: Producer company
Street: Backstreet 133
City: Brussels
Postal code: 12345
Country: Belgium

The following animals are born on the farm of the producer:

Animal ID	AU71244008	AU71244009	AU71244010
Date of birth	01.01.2004	02.01.2004	01.01.2004
Gender	male	male	male
Breed	Jersey	Jersey	Jersey
Country of birth	Belgium	Belgium	Belgium
Feeding system	organic	intensive organic	Intensiveorganic
Holding system	predominantly barn	predominantly barn	predominantly barn
Paternal Identification	AU71244111	AU71244112	AU71244113
Breed of father	Jersey	Jersey	Jersey
Maternal Identification	AU71244222	AU71244223	AU71244224
Breed of mother	Jersey	Jersey	Jersey
Reason for movement	sale for fattening	sale for fattening	sale for fattening
Date of departure	01.03.2004	01.03.2004	01.03.2004

Process step 2: Fattening farm 1

Address of the fattening farm 1:
Name: Fattening company
Street: Bigstreet 5
City: Amsterdam
Postal code: 34567
Country: Netherlands

Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	02.03.2004	02.03.2004	02.03.2004
Country of fattening	Netherlands	Netherlands	Netherlands
Feeding system	Not specified	Organic	Not specified
Holding system	predominantly pasture	predominantly pasture	predominantly pasture
Reason for movement	sale for fattening	sale for fattening	sale for fattening
Date of departure	01.06.2004	01.06.2004	01.06.2004

Process step 3: Fattening farm 2

Address of the fattening farm 2:
Name: Fettmann KG
Street: Kanalstraße 33
City: Köln
Postal code: 50825
Country: Germany

Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	02.06.2004	02.06.2004	02.06.2004
Country of fattening	Germany	Germany	Germany
Feeding system	Intensive	Intensive	Intensive
Holding system	predominantly pasture	predominantly pasture	predominantly pasture
Reason for movement	sale for slaughteringslaughtering	sale for slaughteringsale for slaughtering	sale for slaughteringsale for slaughtering
Date of departure	02.09.2004	02.09.2004	02.09.2004

Process step 4: slaughterhouse

A shipment of cows from the “Fattermanettmann company” is received September 93th, 2004. The slaughterhouse records the information regarding the rearing of each cattle or the data are stored in a central data base for the supply chain. The cows are slaughtered and each carcass is identified with the GTIN and ear-tag number of the cow it is derived from.

GLN of the slaughterhouse: 4012345000009
Slaughterhouse approval number: BE234

GTIN	40123450000166	40123450000166	40123450000166

Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	03.09.2004	03.09.2004	03.09.2004
Country of Slaughtering	Belgium	Belgium	Belgium
Date of slaughter	04.09.2004	04.09.2004	05.09.2004
Slaughtering weight	280,3 kg	285,7 kg	290,6 kg
Slaughter system	halal	kosher	Halal
Category (UN/ECE)	young intact male	heifer	Young intact male
Conformation (SEUROP)	SE	S	E
Fat cover (UN/ECE)	Not specified	Peeled Denuded	Not specified
Reason for movement	Sale for cutting	Sale for cutting	Sale for cutting
Date of departure	05.09.2004	05.09.2004	05.09.2004

The slaughterhouse prepares a shipment identified with number “BE59-351-6098” on September 5th, under trading partner agreement “BE59.BEF2-CT-2”, to the cutting plant with the GLN 4000005000070; the shipment consists of the carcasses of the received and slaughtered cows.

The message sent from the slaughterhouse to the cutting hall 1 contains the following information (related to the product respectively GTIN):

Trade Item Identification	Animal Identification		
GTIN	Animal ID		
40123450000166	AU71244008	Meat history information (origin and processing history)	
	Activity History		
		Current step identification	1
		Next step identification	2
		Activity Type:	Breeding
		Activity Step	
		Country of activity	Belgium
		Performer Type	Breeder
		Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
		Date of departure	01.03.2004
		Reason for movement	sale for fattening
	Work Item Identification		
	Animal Id	AU71244008	
	Work Item Type	Animal	
		Meat Despatch Information	
		Breeding Details	
		Date of birth	01.01.2004
		Gender	male
		Breed	Jersey
		Feeding system	organic
		Holding system	predominantly barn
		Paternal Identification	AU71244111
		Breed of father	Jersey
		Maternal Identification	AU71244222
		Breed of mother	Jersey
	Activity History		

Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening

Work Item Identification	
AnimalID	AU71244008
Work Item Type	Animal

Meat Despatch Information Fattening	
Feeding system	Not specified
Holding system	predominantly pasture

Activity History

Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering

Work Item Identification	
Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information Fattening	
Feeding system	Intensive
Holding system	predominantly pasture

Activity History

Current step identification	4
Next Stagel Id	
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting

Work Item Identification	
GTIN	40123450000166
Animal ID	AU71244008
Work Item Type	Carcass
4012345000016	AU71244008

Meat Despatch Information slaughteringDetailsSlaughtering	
Date of slaughter	04.09.2004

Slaughtering weight	280,3 kg
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation (SEUROP)	SE
Fat cover (UN/ECE)	Not specified

Trade Item Identification GTIN	Item Sub Identification Animal ID	
40123450000166	AU71244009	Meat history information (origin and processing history)

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Process step 5: Cutting plant 1

A shipment of carcasses from slaughterhouse with the GLN 4012345000009 is received by the cutting plant 1 identified with GLN 4000005000070 (cutting plant approval number: FR2345) on September 5th, 2004. Two of the carcasses are converted into a batch of primal cuts (product A). Product A is identified with GTIN 4000005009998 and batch number FR2-NB-1523 and consists of the carcasses with the ID's:

- GTIN 40123450000166 / Animal ID AU71244008
- GTIN 40123450000166 / Animal ID AU71244010.

The third carcass is converted into a different product (product B). Product B is identified with GTIN 4000005001114 and batch number FR2-ZZ-9999 and consists of the carcass with the ID:

- GTIN 40123450000166 / Animal ID AU71244009

Product	A	B
GTIN	40000050099988	40000050011144
Batch number	FR2-NB-1523	FR2-ZZ-9999
Date of arrival	05.09.2004	05.09.2004
Country of cutting	France	France
UN/ECE classification	1164353010400015000	
Date of departure	07.09.2004	07.09.2004

A shipment to cutting hall 2 is prepared on September 7th, 2004 and consists of the products derived from the received carcasses.

The message sent from cutting plant 1 to cutting plant 2 contains the following information (related to the product respectively GTIN):

TradeItem Identification GTIN	ItemSub Identification Additional ID	
40000050099988	FR2-NB-1523	Meat history information (origin and processing history)

Activity History	
Current step identification	1
Next step identification	2
Activity Type:	Breeding
Activity Step	
Country of activity	Belgium
Performer Type	Breeder
Performer Identification:	Name: Producer company Street: Backstreet 133

	City: Brussels Postal code: 12345 Country: Belgium
Date of departure	01.03.2004
Reason for movement	sale for fattening

Work Item Identification	
Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information Breeding	
Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244111
Breed of father	Jersey
Maternal Identification	AU71244222
Breed of mother	Jersey

Work Item Identification	
Animal ID	AU71244010
Work Item Type	Animal

Meat Despatch Information Breeding	
Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244113
Breed of father	Jersey
Maternal Identification	AU71244224
Breed of mother	Jersey

Activity History	
Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening

Work Item Identification	
Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Not specified
Holding system	predominantly pasture

Work Item Identification	
Animal ID	AU71244010
Work Item Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Not specified
Holding system	predominantly pasture

Activity History

Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering

Work Item Identification	
Animal ID	AU71244008
Work tem Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Intensive
Holding system	predominantly pasture

Work Item Identification	
Animal ID	AU71244010
Work tem Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Intensive
Holding system	predominantly pasture

Activity History

Current step identification	4
Next step identification	5
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting

Work Item Identification	
GTIN	40123450000166
Animal ID	AU71244008
Work Item Type	Carcass

Meat Despatch Information Slaughtering Details	
Date of slaughter	04.09.2004
Slaughtering weight	280,3 kg
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

Work Item Identification	
GTIN	40123450000166
Animal ID	AU71244010
Work Item Type	Carcass

Meat Despatch Information Slaughtering Details	
Date of slaughter	04.09.2004
Slaughtering weight	290,6 kg
Slaughter system	halal

Category (UN/ECE)	Young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

Activity History	
Current step identification	5
Next step identification	
Activity Type:	Cutting
Activity Step	1
Country of activity	France
Performer Type	Cutter
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345
Date of arrival	05.09.2004
Date of departure	07.09.2004

Work Item Identification	
GTIN	4000005009998
Batch Number	FR2-NB-1523
Work Item Type	Meat

Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400015000

GTIN	Additional ID	
40000050011144	FR2-ZZ-9999	Meat history information (origin and processing history)

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Process step 6: Cutting plant 2

A shipment of 2 products of primal cuts from cutting plant 1 is received by the cutting hall 2 identified with GLN 4400999000016 (approval number of cutting hall DK98767) on September 8th, 2004.

Each batch is processed separately and converted into a single batch of secondary cuts.

Product A (GTIN 4000005009998 / batch number FR2-NB-1523) is converted in product C identified with GTIN 44009990009933 and batch number DK3296.

Product B (GTIN 4000005001114 / batch number FR2-ZZ-9999) is converted in product D GTIN 44009990004433 and batch number “DK9999”.

Product	C	D
GTIN	44009990009933	44009990004433
Batch number	DK3296	DK9999
Date of arrival	08.09.2004	08.09.2004
Country of cutting	Denmark	Denmark
UN/ECE classification	1164353010400017999	
Date of departure	10.09.2004	10.09.2004

A shipment to the mincer consisting of the two products is prepared on September 10th, 2004.

The message sent from cutting plant 2 to the mincer contains the following information (related to the product respectively GTIN):

Trade Item Identification	Item Sub Identification
GTIN	Additional ID

44009990009933	DK3296	Meat history information (origin and processing history)

Activity History

Current step identification	1
Next step identification	2
Activity Type:	Breeding
Activity Step	
Country of activity	Belgium
Performer Type	Breeder
Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
Date of departure	01.03.2004
Reason for movement	sale for fattening

Work Item Identification

Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information

Breeding Details

Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244111
Breed of father	Jersey
Maternal Identification	AU71244222
Breed of mother	Jersey

Work Item Identification

Animal ID	AU71244010
Work Item Type	Animal

Meat Despatch Information

Breeding Details

Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244113
Breed of father	Jersey
Maternal Identification	AU71244224
Breed of mother	Jersey

Activity History

Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening

Work Item Identification

Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information

fatteningDetails	
Feeding system	Not specified
Holding system	predominantly pasture

Work Item Identification	
Animal ID	AU71244010
Work Item Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Not specified
Holding system	predominantly pasture

Activity History	
Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering

WorkItemIdentification	
Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Intensive
Holding system	predominantly pasture

Work Item Identification	
Animal ID	AU71244010
Work tem Type	Animal

Meat Despatch Information Fattening Details	
Feeding system	Intensive
Holding system	predominantly pasture

Activity History	
Current step identification	4
Next step identification	5
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting

Work Item Identification	
GTIN	40123450000166
Animal ID	AU71244008
Work Item Type	Carcass

Meat Despatch Information Slaughtering Details	
Date of slaughter	04.09.2004
Slaughtering weight	280,3 kg
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation	E

(SEUROP)	
Fat cover (UN/ECE)	Not specified

Work Item Identification	
GTIN	40123450000166
Animal ID	AU71244010
Work tem Type	Carcass

Meat Despatch Information Slaughtering Details	
Country of Slaughtering	Belgium
Date of slaughter	04.09.2004
Slaughtering weight	290,6 kg
Slaughter system	halal
Category (UN/ECE)	Young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

Activity History	
Current step identification	5
Next step identification	6
Activity Type:	Cutting
Activity Step	1
Country of activity	Belgium
Performer Type	Cutter
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345
Date of arrival	05.09.2004
Date of departure	07.09.2004

Work Item Identification	
GTIN	40000050099988
Batch Number	FR2-NB-1523
Work tem Type	Meat

Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400015000

Activity History	
Current step identification	6
Next step identification	
Activity Type:	Cutting
Activity Step	2
Performer Type	Cutter
Performer Identification:	GLN: 4400999000016 Approval Number: DK98767
Date of arrival	08.09.2004
Date of departure	10.09.2004

Work Item Identification	
GTIN	44009990009933
Batch Number	DK3296
Work tem Type	Meat

Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400017999

GTIN	Additional ID	
4400999000443	DK9999	Meat history information (origin and processing history)

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Process step 6: Mincer

A shipment of 2 products of secondary cuts from cutting plant 2 is received by the mincer identified with GLN 4055555999992 on September 12th, 2004.

Product C identified with GTIN 44009990009933 and batch number DK3296 is converted into minced beef identified with GTIN 4055555000568 and batch number NL1232.

GTIN	40555550005688
Batch number	NL1232
Date of arrival	12.09.2004
Fat content	40 %
Country of cutting	Netherlands
Date of departure	13.09.2004

The message sent from the mincer to the retailer contains the following information (related to the product respectively GTIN):

Trade Item Identification GTIN	Item Sub Identification Additional ID	Meat history information (origin and processing history)
40555550005688	NL1232	

Activity History

Current step identification	1
Next step identification	2
Activity Type:	Breeding
Activity Step	
Country of activity	Belgium
Performer Type	Breeder
Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
Date of departure	01.03.2004
Reason for movement	sale for fattening

Work Item Identification

Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information

Breeding Details

Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244111
Breed of father	Jersey
Maternal Identification	AU71244222
Breed of mother	Jersey

Work Item Identification

Animal ID	AU71244010
Work Item Type	Animal

Meat Despatch Information

breedingDetails

Date of birth	01.01.2004

Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Paternal Identification	AU71244113
Breed of father	Jersey
Maternal Identification	AU71244224
Breed of mother	Jersey

Activity History

Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening

Work Item Identification

Animal ID	AU71244008
Work Item Type	Animal

Meat Despatch Information

Fattening Details

Feeding system	Not specified
Holding system	predominantly pasture

Work Item Identification

Animal ID	AU71244010
Work tem Type	Animal

Meat Despatch Information

Fattening Details

Feeding system	Not specified
Holding system	predominantly pasture

Activity History

Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering

Work Item Identification

Animal ID	AU71244008
Work tem Type	Animal

Meat Despatch Information	
Fattening Details	
Country of fattening	Germany
Feeding system	Intensive
Holding system	predominantly pasture

Work Item Identification	
Animal ID	AU71244010
Work tem Type	Animal

Meat Despatch Information	
Fattening Details	
Country of fattening	Germany
Feeding system	Intensive
Holding system	predominantly pasture

Activity History	
Current step identification	4
Next step identification	5
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009
	ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting

Work Item Identification	
GTIN	4012345000166
Animal ID	AU71244008
Work tem Type	Carcass

Meat Despatch Information	
Slaughtering Details	
Date of slaughter	04.09.2004
Slaughtering weight	280,3 kg
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

Work Item Identification	
GTIN	4012345000166
Animal ID	AU71244010
Work tem Type	Carcass

Meat Despatch Information	
Slaughtering Details	
Country of Slaughtering	Belgium

Date of slaughter	04.09.2004
Slaughtering weight	290,6 kg
Slaughter system	halal
Category (UN/ECE)	Young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

ActivityHistory

Current step identification	5
Next step identification	6
Activity Type:	Cutting
Activity Step	1
Country of activity	Belgium
Performer Type	Cutter
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345
Date of arrival	05.09.2004
Date of departure	07.09.2004

Work Item Identification

GTIN	40000050099988
Batch Number	FR2-NB-1523
Work tem Type	Meat

Meat Despatch Information

Cutting Details

UN/ECE classification	11643530104000 15000

Activity History

Current step identification	6
Next step identification	7
Activity Type:	Cutting
Activity Step	2
Country of activity	Denmark
Performer Type	Cutter
Performer Identification:	GLN: 4400999000016 Approval Number: DK98767
Date of arrival	08.09.2004
Date of departure	10.09.2004

Work Item Identification

GTIN	44009990009933
Batch Number	DK3296
Work tem Type	Meat

Meat Despatch Information

Cutting Details

UN/ECE classification	11643530104000 17999

Activity History

Current step identification	7
Next step identification	
Activity Type:	Mincing
Activity Step	1
Country of activity	Netherlands
Performer Type	Mincer
Performer Identification:	GLN: 4055555999992

Date of arrival	12.09.2004
Date of departure	13.09.2004

Work Item Identification	
GTIN	40555550005688
Batch Number	NL1232
Work tem Type	Trade Item

Meat Despatch Information	
Mincing Details	
Fat content	40 %

Process step 7: Retailer

A shipment of one batch of consumer units from the mincer is received September 30th, 2004.

The batch is made available for sale at a retail outlet October 1st, 2004.

6.3. Scenario 2: Restricted origin and production history

Process step 1: Producer

Address of the producer:
Name: Producer company
Street: Backstreet 133
City: Brussels
Postal code: 12345
Country: Belgium

The following animals are born on the farm of the producer:

Animal ID	AU71244008	AU71244009	AU71244010
Date of birth	01.01.2004	02.01.2004	01.01.2004
Gender	male	male	male
Breed	Jersey	Jersey	Jersey
Country of birth	Belgium	Belgium	Belgium
Feeding system	organic	intensive	organic
Holding system	predominantly barn	predominantly barn	predominantly barn
Paternal Identification	AU71244111	AU71244112	AU71244113
Breed of father	Jersey	Jersey	Jersey
Maternal Identification	AU71244222	AU71244223	AU71244224
Breed of mother	Jersey	Jersey	Jersey
Reason for movement	sale for fattening	sale for fattening	sale for fattening
Date of departure	01.03.2004	01.03.2004	01.03.2004

Process step 2: Fattening farm 1

Address of the fattening farm 1:
Name: Fattening company
Street: Bigstreet 5
City: Amsterdam
Postal code: 34567
Country: Netherlands

Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	02.03.2004	02.03.2004	02.03.2004
Country of fattening	Netherlands	Netherlands	Netherlands
Feeding system	Not specified	Organic	Not specified
Holding system	predominantly pasture	predominantly pasture	predominantly pasture

Reason for movement	sale for fattening	sale for fattening	sale for fattening
Date of departure	01.06.2004	01.06.2004	01.06.2004

Process step 3: Fattening farm 2

Address of the fattening farm 2:
Name: Fettmann KG
Street: Kanalstraße 33
City: Köln
Postal code: 50825
Country: Germany

Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	02.06.2004	02.06.2004	02.06.2004
Country of fattening	Germany	Germany	Germany
Feeding system	Intensive	Intensive	Intensive
Holding system	predominantly pasture	predominantly pasture	predominantly pasture
Reason for movement	sale for slaughtering	sale for slaughtering	sale for slaughtering
Date of departure	02.09.2004	02.09.2004	02.09.2004

Process step 4: slaughterhouse

A shipment of cows from the “Fettmann company” is received September 3th, 2004. The the information regarding the rearing of each cattle are stored in a data base. The cows are slaughtered and each carcass is identified with the GTIN and ear-tag number of the cow it is derived from.

GLN of the slaughterhouse: 4012345000009
Slaughterhouse approval number: BE234

GTIN	40123450000166	40123450000166	40123450000166
Animal ID	AU71244008	AU71244009	AU71244010
Date of arrival	03.09.2004	03.09.2004	03.09.2004
Country of Slaughtering	Belgium	Belgium	Belgium
Date of slaughter	04.09.2004	04.09.2004	05.09.2004
Slaughtering weight	280,3 kg	285,7 kg	290,6 kg
Slaughter system	halal	kosher	Halal
Category (UN/ECE)	young intact male	heifer	Young intact male
Conformation (SEUROP)	E	S	E
Fat cover (UN/ECE)	Not specified	Peeled Denuded	Not specified
Reason for movement	Sale for cutting	Sale for cutting	Sale for cutting
Date of departure	05.09.2004	05.09.2004	05.09.2004

The slaughterhouse prepares a shipment identified with number “BE59-351-6098” on September 5th, under trading partner agreement “BEF2-CT-2”, to the cutting plant with the GLN 4000005000070; the shipment consists of the carcasses of the received and slaughtered cows.

The message sent from the slaughterhouse to cutting plant 1 contains the following information (related to the product respectively GTIN):

Trade Item Identification	Animal Identification		
GTIN	AnimalID		
40123450000166	AU71244008	Meat history information (origin and processing history)	
	Activity History		
		Current step identification	1
		Next step identification	2
		Activity Type:	Breeding
		Activity Step	
		Country of activity	Belgium
		Performer Type	Breeder
		Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
		Date of departure	01.03.2004
		Reason for movement	sale for fattening
		Meat Despatch Information Breeding Details	
		Date of birth	01.01.2004
		Gender	male
		Breed	Jersey
		Feeding system	organic
		Holding system	predominantly barn
		Paternal Identification	AU71244111
		Breed of father	Jersey
		Maternal Identification	AU71244222
		Breed of mother	Jersey
	Activity History		
		Current step identification	2
		Next Stage IId	3
		Activity Type:	Fattening
		Activity Step	1
		Country of activity	Netherlands
		Performer Type	Fattener
		Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
		Date of arrival	02.03.2004
		Date of departure	01.06.2004
		Reason for movement	sale for fattening
		Meat Despatch Information fattening Details	
		Feeding system	Not specified
		Holding system	predominantly pasture
	Activity History		
		Current step identification	3
		Next step identification	4
		Activity Type:	Fattening

	Activity Step	2
	Country of activity	Germany
	Performer Type	Fattener
	Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
	Date of arrival	02.06.2004
	Date of departure	02.09.2004
	Reason for movement	sale for slaughtering
	Meat Despatch Information fattening Details	
	Feeding system	Intensive
	Holding system	predominantly pasture
ActivityHistory		
	Current step identification	4
	Next StageI Id	
	Activity Type:	Slaughtering
	Activity Step	
	Country of activity	Belgium
	Performer Type	Slaughterer
	Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
	Date of arrival	03.09.2004
	Date of departure	05.09.2004
	Reason for movement	sale for cutting
	Meat Despatch Information Slaughtering Details	
	Date of slaughter	04.09.2004
	Slaughtering weight	280,3 kg
	Slaughter system	halal
	Category (UN/ECE)	young intact male
	Conformation (SEUROP)	E
	Fat cover (UN/ECE)	Not specified

Trade Item Identification GTIN	Item Sub Identification Animal ID	
4012345000016	AU71244009	Meat history information (origin and processing history)

.....

Process step 5: Cutting plant 1

A shipment of carcasses from slaughterhouse with the GLN 4012345000009 is received by the cutting plant 1 identified with GLN 4000005000070 (cutting plant approval number: FR2345) on September 5th, 2004. Two of the carcasses are converted into a batch of primal cuts (product A). Product A is identified with GTIN 4000005009998 and batch number FR2-NB-1523 and consists of the carcasses with the ID's:

- GTIN 40123450000166 / Animal ID AU71244008
- GTIN 40123450000166 / Animal ID AU71244010.

The third carcass is converted into a different product (product B). Product B is identified with GTIN 4000005001114 and batch number FR2-ZZ-9999 and consists of the carcass with the ID:

- GTIN 40123450000166 / Animal ID AU71244009

Product	A	B
GTIN	40000050099988	40000050011144
Batch number	FR2-NB-1523	FR2-ZZ-9999
Date of arrival	05.09.2004	05.09.2004
Country of cutting	France	France
UN/ECE classification	1164353010400015000	
Date of departure	07.09.2004	07.09.2004

A shipment to cutting hall 2 is prepared on September 7th, 2004 and consists the products derived from the received carcasses.

The message sent from cutting plant 1 to cutting plant 2 contains the following information (related to the product respectively GTIN):

TradeItem Identification GTIN	ItemSub Identification Additional ID	Meat history information (origin and processing history)	
40000050099988	FR2-NB-1523		
	Activity History		
		Current step identification	1
		Next step identification	2
		Activity Type:	Breeding
		Activity Step	
		Country of activity	Belgium
		Performer Type	Breeder
		Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
		Date of arrival	
		Date of departure	01.03.2004
		Reason for movement	sale for fattening
		Meat Despatch Information Breeding Details	
		Gender	male
		Breed	Jersey
		Feeding system	organic
		Holding system	predominantly barn
		Breed of father	Jersey
		Breed of mother	Jersey
	Activity History		
		Current step identification	2
		Next step identification	3
		Activity Type:	Fattening
		Activity Step	1
		Country of activity	Netherlands
		Performer Type	Fattener
		Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
		Date of arrival	02.03.2004
		Date of departure	01.06.2004
		Reason for movement	sale for fattening

	Meat Despatch Information Fattening Details	
	Feeding system	Not specified
	Holding system	predominantly pasture
Activity History		
Current step identification	3	
Next step identification	4	
Activity Type:	Fattening	
Activity Step	2	
Country of activity	Germany	
Performer Type	Fattener	
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany	
Date of arrival	02.06.2004	
Date of departure	02.09.2004	
Reason for movement	sale for slaughtering	
	Meat Despatch Information Fattening Details	
	Feeding system	Intensive
	Holding system	predominantly pasture
Activity History		
Current step identification	4	
Next step identification	5	
Activity Type:	Slaughtering	
Activity Step		
Country of activity	Belgium	
Performer Type	Slaughterer	
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234	
Date of arrival	03.09.2004	
Date of departure	05.09.2004	
Reason for movement	sale for cutting	
	Meat Despatch Information Slaughtering Details	
	Date of slaughter	04.09.2004
	Slaughter system	halal
	Category (UN/ECE)	young intact male
	Conformation (SEUROP)	E
	Fat cover (UN/ECE)	Not specified
Activity History		
Current step identification	5	
Next step identification		
Activity Type:	Cutting	
Activity Step	1	
Country of activity	France	
Performer Type	Cutter	
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345	
Date of arrival	05.09.2004	
Date of departure	07.09.2004	
Work tem Type Meat	Meat Despatch Information Cutting Details	
	UN/ECE classification	1164353010400015000

GTIN	Additional ID

40000050011144	FR2-ZZ-9999	Meat history information (origin and processing history)

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Process step 6: Cutting plant 2

A shipment of 2 products of primal cuts from cutting plant 1 is received by the cutting hall 2 identified with GLN 4400999000016 (approval number of cutting hall DK98767) on September 8th, 2004.

Each batch is processed separately and converted into a single batch of secondary cuts.

Product A (GTIN 40000050099988 / batch number FR2-NB-1523) is converted in product C identified with GTIN 44009990009933 and batch number DK3296.

Product B (GTIN 4000005001114 / batch number FR2-ZZ-9999) is converted in product D GTIN 4400999000443 and batch number “DK9999”.

Product	C	D
GTIN	44009990009933	44009990004433
Batch number	DK3296	DK9999
Date of arrival	08.09.2004	08.09.2004
Country of cutting	Denmark	Denmark
Date of departure	10.09.2004	10.09.2004

A shipment to the mincer consisting of the two products is prepared on September 10th, 2004.

The message sent from cutting plant 2 to the mincer contains the following information (related to the product respectively GTIN):

TradeItem Identification GTIN	ItemSub Identification Additional ID	
44009990009933	DK3296	Meat history information (origin and processing history)

Activity History	
Current step identification	1
Next step identification	2
Activity Type:	Breeding
Activity Step	
Country of activity	Belgium
Performer Type	Breeder
Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
Date of departure	01.03.2004
Reason for movement	sale for fattening

Meat Despatch Information breedingDetails	
Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Breed of father	Jersey

Breed of mother	Jersey
Activity History	
Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening
Meat Despatch Information Fattening Details	
Feeding system	Not specified
Holding system	predominantly pasture
Activity History	
Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering
Meat Despatch Information Fattening Details	
Country of fattening	Germany
Feeding system	Intensive
Holding system	predominantly pasture
Activity History	
Current step identification	4
Next step identification	5
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting
Meat Despatch Information Slaughtering Details	
Date of slaughter	04.09.2004
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation (SEUROP)	E

Fat cover (UN/ECE)	Not specified
Activity History	
Current step identification	5
Next step identification	6
Activity Type:	Cutting
Activity Step	1
Country of activity	France
Performer Type	Cutter
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345
Date of arrival	05.09.2004
Date of departure	07.09.2004
Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400015000
ActivityHistory	
Current step identification	6
Next step identification	
Activity Type:	Cutting
Activity Step	2
Performer Type	Cutter
Performer Identification:	GLN: 4400999000016 Approval Number: DK98767
Date of arrival	08.09.2004
Date of departure	10.09.2004
Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400017999

GTIN	Additional ID	
44009990004433	DK9999	Meat history information (origin and processing history)

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Process step 6: Mincer

A shipment of 2 products of secondary cuts from cutting plant 2 is received by the mincer identified with GLN 4055555999992 on September 12th, 2004.

Product C identified with GTIN 44009990009933 and batch number DK3296 is converted into minced beef identified with GTIN 4055555000568 and batch number NL1232.

GTIN	40555550005688
Batch number	NL1232
Date of arrival	12.09.2004
Fat content	40 %
Country of cutting	Netherlands
Date of departure	13.09.2004

The message sent from the mincer to the retailer contains the following information (related to the product respectively GTIN):

TradeItem Identification GTIN	ItemSub Identification Additional ID	
40555550005688	NL1232	Meat history information (origin and processing history)

Activity History	
Current step identification	1
Next step identification	2
Activity Type:	Breeding
Activity Step	
Country of activity	Belgium
Performer Type	Breeder
Performer Identification:	Name: Producer company Street: Backstreet 133 City: Brussels Postal code: 12345 Country: Belgium
Date of arrival	
Date of departure	01.03.2004
Reason for movement	sale for fattening

Meat Despatch Information breedingDetails	
Date of birth	01.01.2004
Gender	male
Breed	Jersey
Feeding system	organic
Holding system	predominantly barn
Breed of father	Jersey
Breed of mother	Jersey

Activity History	
Current step identification	2
Next step identification	3
Activity Type:	Fattening
Activity Step	1
Country of activity	Netherlands
Performer Type	Fattener
Performer Identification:	Name: Fattening company Street: Bigstreet 5 City: Amsterdam Postal code: 34567 Country: Netherlands
Date of arrival	02.03.2004
Date of departure	01.06.2004
Reason for movement	sale for fattening

Meat Despatch Information Fattening Details	
Feeding system	Not specified
Holding system	predominantly pasture

Activity History	
Current step identification	3
Next step identification	4
Activity Type:	Fattening
Activity Step	2
Country of activity	Germany
Performer Type	Fattener
Performer Identification:	Name: Fettmann KG Street: Kanalstraße 33 City: Köln Postal code: 50825 Country: Germany
Date of arrival	02.06.2004
Date of departure	02.09.2004
Reason for movement	sale for slaughtering

Meat Despatch Information Fattening Details

Country of fattening	Germany
Feeding system	Intensive
Holding system	predominantly pasture

Activity History	
Current step identification	4
Next step identification	5
Activity Type:	Slaughtering
Activity Step	
Country of activity	Belgium
Performer Type	Slaughterer
Performer Identification:	GLN: 4012345000009 ApprovalNumber:BE234
Date of arrival	03.09.2004
Date of departure	05.09.2004
Reason for movement	sale for cutting

Meat Despatch Information Slaughtering Details	
Date of slaughter	04.09.2004
Slaughter system	halal
Category (UN/ECE)	young intact male
Conformation (SEUROP)	E
Fat cover (UN/ECE)	Not specified

Activity History	
Current step identification	5
Next step identification	6
Activity Type:	Cutting
Activity Step	1
Country of activity	France
Performer Type	Cutter
Performer Identification:	GLN: 4000005000070 Approval Number: FR2345
Date of arrival	05.09.2004
Date of departure	07.09.2004

Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400015000

ActivityHistory	
Current step identification	5
Next step identification	6
Activity Type:	Cutting
Activity Step	2
Performer Type	Cutter
Performer Identification:	GLN: 4400999000016 Approval Number: DK98767
Date of arrival	08.09.2004
Date of departure	10.09.2004

Meat Despatch Information Cutting Details	
UN/ECE classification	1164353010400017999

ActivityHistory	
Current step identification	7
Next step identification	
Activity Type:	Mincing
Activity Step	1
Country of activity	Netherlands
Performer Type	Mincer
Performer Identification:	GLN: 4055555999992

Date of arrival	12.09.2004
Date of departure	13.09.2004

Meat Despatch Information Mincing Details	
Fat content	40 %

Process step 7: Retailer

A shipment of 1 batch of consumer units from the mincer is received September 30th, 2004.

The batch is made available for sale at a retail outlet October 1st, 2004.

7. Implementation Considerations

Not Applicable

8. Testing

Not Applicable

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

8.2.1. Document Example (message after process step 4)

MeatDespatchAdviceLineItemExtension	
AnimalIdentification (+animalIdentification)	
- animalIdentificationNumber	AU71244008
MeatActivityHistory (*1)	
- meatProcessingActivityTypeCode	BREEDING
- currentStepIdentification	1
- nextStepIdentification	2
- countryOfActivityCode	BE
- dateOfDeparture	2004-03-01
- movementReasonCode	Sale for fattening
MeatProcessingParty	
- meatProcessingPartyTypeCode	BREEDER
Address	
- name	Producer Company
- streetAddressOne	Rue du Bac 133
- city	Brussels
- postalCode	12345
- countryCode	BE
MeatWorkItemIdentification	
- meatWorkItemTypeCode	ANIMAL
AnimalIdentification (+animalIdentification)	
- animalIdentificationNumber	AU71244008
MeatBreedingDetails	

breedCode	Jersey
breedOfMotherCode	Jersey
breedOfFatherCode	Jersey
dateOfBirth	2004-01-01
feedingSystemCode	organic
genderCode	MALE
housingSystemCode	Predominantly barn
AnimalIdentification (+paternalIdentification)	
- animalIdentificationNumber	AU71244111
AnimalIdentification (+maternalIdentification)	
- animalIdentificationNumber	AU71244222
MeatActivityHistory (*2)	
- meatProcessingActivityTypeCode	FATTENING
- currentStepIdentification	2
- nextStepIdentification	3
- activitySubStepIdentification	1
- countryOfActivityCode	NL
- dateOfArrival	2004-03-02
- dateOfDeparture	2004-06-01
- movementReasonCode	Sale for fattening
MeatProcessingParty	
- meatProcessingPartyTypeCode	FATTENER
Address	
- name	Fattening Company
- streetAddressOne	Damstraat 5
- city	Amsterdam
- postalCode	34567
- countryCode	NL
MeatWorkItemIdentification	
- meatWorkItemTypeCode	ANIMAL
AnimalIdentification (+animalIdentification)	
- animalIdentificationNumber	AU71244008
MeatFatteningDetails	
- housingSystemCode	Predominantly pasture
MeatActivityHistory (*3)	
- meatProcessingActivityTypeCode	FATTENING
- currentStepIdentification	3
- nextStepIdentification	4

- activitySubStepIdentification	2
- countryOfActivityCode	DE
- dateOfArrival	2004-06-02
- dateOfDeparture	2004-09-02
- movementReasonCode	Sale for slaughtering
MeatProcessingParty	
- meatProcessingPartyTypeCode	FATTENER
Address	
- name	Fettmann KG
- streetAddressOne	Kanalstraße 5
- city	Köln
- postalCode	50825
- countryCode	DE
MeatWorkItemIdentification	
- meatWorkItemTypeCode	ANIMAL
AnimalIdentification (+animalIdentification)	
- animalIdentificationNumber	AU71244008
MeatFatteningDetails	
- feedingSystemCode	Intensive
- housingSystemCode	Predominantly pasture
MeatActivityHistory (*4)	
- meatProcessingActivityTypeCode	SLAUGHTERING
- currentStepIdentification	4
- countryOfActivityCode	BE
- dateOfArrival	2004-09-03
- dateOfDeparture	2004-09-05
- movementReasonCode	Sale for cutting
MeatProcessingParty	
- meatProcessingPartyTypeCode	SLAUGHTERER
- gln	4012345000009
- approvalNumber	BE234
MeatWorkItemIdentification	
- meatWorkItemTypeCode	CARCASS
AnimalIdentification (+animalIdentification)	
- animalIdentificationNumber	AU71244008
TradeItemIdentification (+productIdentification)	
- gtin	40123450000166
MeatSlaughteringDetails	

- meatConformationCode	SE
- dateOfSlaughtering	2004-09-04
- meatCategoryCode	Young intact male
- slaugtheringSystemCode	halal
- slaugheringWeight	280,3 KGM

9. Appendices

Not Applicable

10. 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.	☒	
2.2	The GS1 Architecture shall leverage the use of GS1 Keys	The solution maintains the GS1 keys as the primary, mandatory identifiers.	☒	
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.	☒	
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.	☒	
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.	☒	
2.6	The GS1 Architecture shall enable security where appropriate	Security solutions are included where appropriate.	☒	
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.	☒	
2.8	The GS1 Architecture shall be royalty-free	The solution supports this principle where possible. The solution may include the use of other standards organizations that may not be royalty free.	☒	

#	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.	☒	
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.	☒	`
3.3	The GS1 Architecture should promote seamless integration	The BSD promotes seamless integration with other GS1 Standards if in scope.	☒	
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.	☒	
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.	☒	
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.	☒	
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.	☒	
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.	☒	
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.	☒	
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.	☒	

#	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.	☒	

11. Summary of Changes

Change	BSD Version	Associated CR Number
Reworked for Major release 3.0, updated the model, GDD reports and examples to reflect the changes in modeming methodology.	1.0.0	N/A
Added definition for optimumMaturationDate	1.0.0	N/A
Added the following data types and code lists (formerly part of eCom Common): ▪ AnimalIdentificationTypeCode ▪ MeatProcessingActivityTypeCode ▪ MeatProcessingPartyIdentificationTypeCode ▪ MeatProcessingPartyTypeCode ▪ MeatWorkItemTypeCode	1.0.0	N/A
Updated for BMS Publication: ▪ Changed status from Draft to Approved ▪ Removed copyright year in footer of document ▪ Clean-up of Document Change History ▪ Fixed missing definition in GDD report for attribute optimumMaturationDate in class MeatSlaughteringDetails to "Date at which optimal maturity occurs. " (definition from Release 2.2, def for 3.0 still missing in GDD) ▪ Updated architectural principles section to correct fields.	1.0.0	N/A