Despatch Advice Line Item Extension Fish Traceability Business Message Standard (BMS)

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Document Summary

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Work Request Reference

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11-Jan-2013	GS1 Spain	13-000010
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Business Requirements Document (BRAD) Reference

BRAD Title	BRAD Issue Date	BRAD Version
WR 12-356 Fish Traceability and Data Attributes	25-Jul-2013	1.0

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change
18-Dec-2013	Draft 1	Mark Van Eeghem	Initial Document Creation	Initial Document Creation
10-Jul-2014	Draft 2	Ewa Iwicka	Document updated following peer review	Message converted into Despatch Line Item Extension, local code list updated
15-Oct-2014	BMS 3.2 Issue 1	Ewa Iwicka	Document updated following community review	Removed: productionCountry from FishCatchOrProduction class; date ofCatchProcessTypeCode from FishCatchOrProductionDates; FishCatchOrProductionUnit class – TransactoponalParty associated directly to the root.
01-Mar-2017	BMS 3.3 – Issue 1	Ewa Iwicka	BMS Release 3.3	See summary of changes
15-Oct-2018	BMS 3.4 – Issue 1	Ewa Iwicka	BMS Release 3.4	See summary of changes
04-Feb-2021	BMS 3.5 – Issue 1	Miklos Bolyky	BMS Release 3.5	See summary of changes

Date of Change	Version	Changed By	Reason for Change	Summary of Change
05-Jan-2022	BMS 3.5.1 – Issue 1	Miklos Bolyky	BMS Release 3.5.1	See summary of changes
01-Mar-2023	BMS 3.6 – Issue 1	Miklos Bolyky	BMS Release 3.6	See summary of changes

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1 Business Domain View

1.1 Introduction

Message Definition / Business need

Fish Traceability Extension is an extension to the Despatch Advice Document used to enable tracking & tracing (traceability) of wild-caught fish and farmed aquaculture products from the point of capture to retail sale.

Principles

Typically, the Despatch Advice serves as a pre-announcement of the goods being shipped. In the context of fish product, additional track and trace data must be provided. The data are exchanged via an extension to the Despatch Advice on line item level.

1.2 References

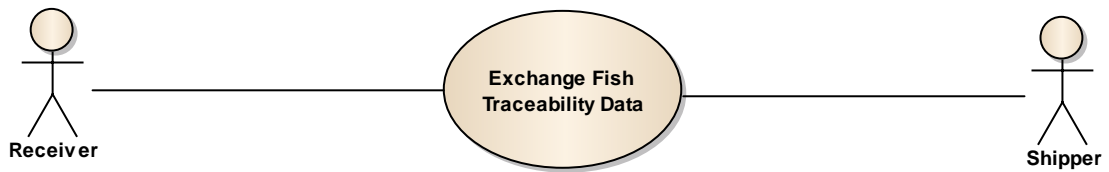| Reference Name	Description
[Ref1]	WR 12-356 Fish Traceability and Data Attributes
[Ref2]	COUNCIL REGULATION(EC) 1224/2009
[Ref3]	COUNCIL REGULATION(EC) 404/2011
[Ref4]	COMMISSION REGULATION (EC) 2065/2001
[Ref5]	COMMISSION REGULATION (EC) 931/2011

2 Business Context

Context Category	Value(s)
Industry	Fresh Foods
Geopolitical	All
Product	Fresh and frozen fish, including wild caught and aquaculture [farmed] that is sold as a primary product.
Process	Deliver
System Capabilities	GS1 System
Official Constraints	None

3 Business Transaction View

3.1 Business Transaction View

Use case diagram

Use case description

Use Case Name	UC1
Use Case Description	Exchange of fish traceability history data and fish product despatch information in order to support traceability and quality management.
Actors (Goal)	Shipper (Fishing Vessel, Aquaculture Farm, Primary Processor, Distributor) Receiver (Secondary Processor, Distributor, Restaurant, Retailer)
Performance Goals	None
Preconditions	A trading agreement (including alignment of master data, payment and delivery terms) has been established between Shipper and Receiver. Traceability data for product(s) ordered have been compiled and prepared for exchange by the Shipper. The fish or aquaculture products are uniquely identified.
Post conditions	Receiver has been supplied with traceability data for fish or aquaculture products which are about to be delivered. Place, time and conditions for delivery have been communicated.
Main Scenario	Begins when the Shipper secures in his local storage medium the traceability data of fish or aquaculture product(s). Continues with:

Step #	Actor	Activity Step
	Shipper	Shipper sends the Receiver traceability data of fish products to be delivered.
	Receiver	Receiver receives this traceability data.
	Receiver	Receiver cross-checks traceability data with physical delivery.
	Receiver	Receiver adds internal information to traceability data, where applicable.

	Ends when the Receiver secures the traceability data in his local storage medium.
Alternative Scenario(s)	Not Applicable
Related Rules	None

Activity diagram

Not Applicable

Communication diagram

Not Applicable

4 Business Information View

4.1 Fish Despatch Advice Line Item Extension

Class diagram
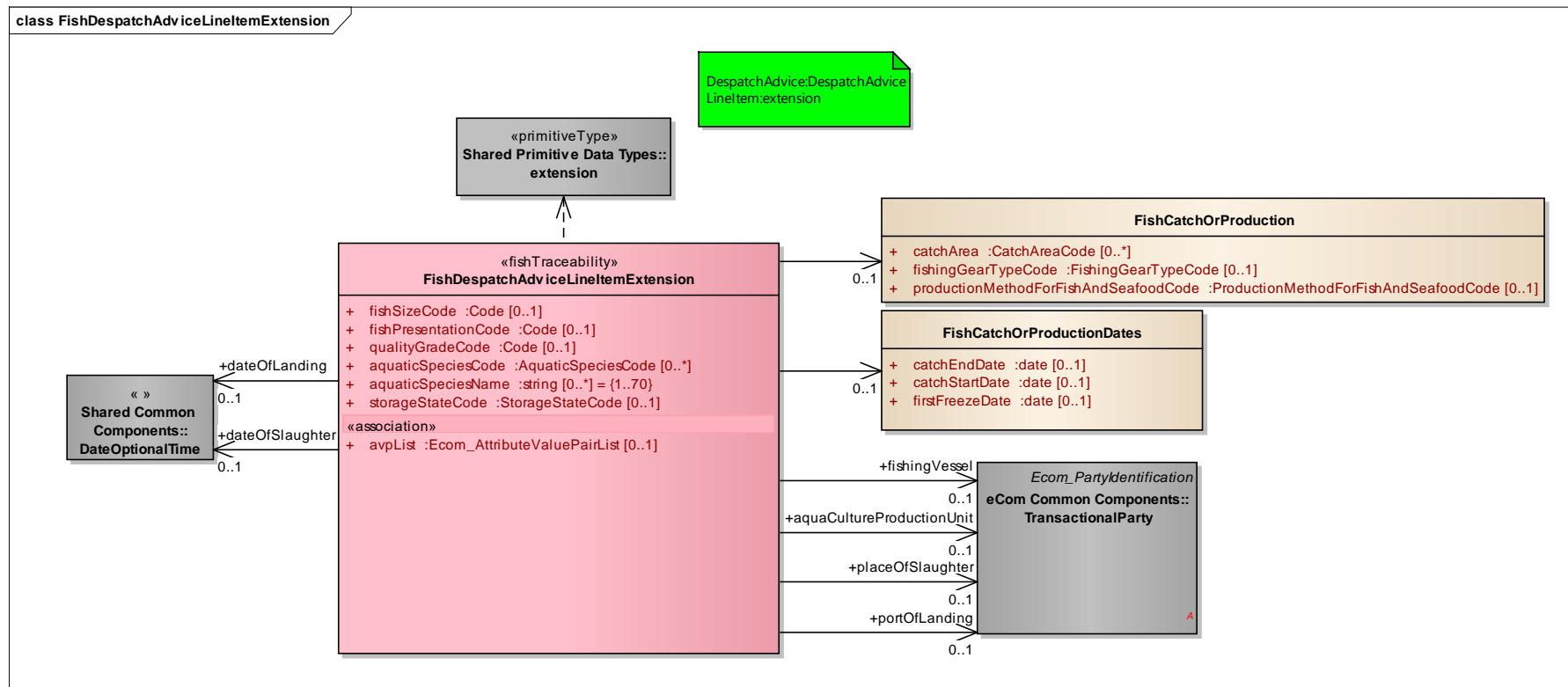
GDD report

The content of the FishDespatchAdviceLineItemExtension class, its structure and component definitions can be accessed in the Global Data Dictionary: *http://apps.gs1.org/GDD/bms/Version3_4/Pages/bieDetails.aspx?semanticURN=urn:gs1:gdd:bie:FishDespatchAdviceLineItemExtension*

Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
FishDespatchAdviceLine ItemExtension				An extension to the Despatch Advice Document used to enable tracking & tracing (traceability) of fish and aquaculture products.	WR 13-000010
Dependency		extension			
Attribute	fishSizeCode	Code	0..1	A code specifying the size of the fish.	WR 13-000010
Attribute	fishPresentationCode	Code	0..1	A code specifying the way the fish is presented for sale.	WR 13-000010
Attribute	qualityGradeCode	Code	0..1	A code specifying the grade of quality of the fish product.	WR 13-000010
Attribute	aquaticSpeciesCode	AquaticSpeciesCode	0..*	A code specifying the scientific name of the fish species.	WR 13-000010
Attribute	aquaticSpeciesName	string	0..*	A scientific name of the fish species.	WR 13-000010
Attribute	storageStateCode	StorageStateCode	0..1	A code specifying whether the fish had been initially frozen or not.	WR 13-000010
Attribute	avpList	Ecom_AttributeValuePairList	0..1	The placeholder for non-standard data.	WR 13-000010
Association		FishCatchOrProduction	0..1	Information about the catch location and catch method used.	WR 13-000010
Attribute	catchArea	CatchAreaCode	0..*	A code specifying area where the product was caught.	WR 13-000010
Attribute	fishingGearTypeCode	FishingGearTypeCode	0..1	A code specifying the type of gear used in capture of fisheries.	WR 14-000049

Content	Attribute / Role	Datatype / Secondaryclass	Multiplicity	Definition	Requirements
Attribute	productionMethodForFishAndSeafoodCode	ProductionMethodForFishAndSeafoodCode	0..1	A code specifying how the fish had been grown / cultivated.	WR 13-000010
Association		FishCatchOrProductionDates	0..1	Date or period of time when the fish had been caught and / or initially frozen.	WR 13-000010
Attribute	catchDateTime	DateOptionalTime	0..1	The date when the fish has been caught.	WR 13-000010
Attribute	catchEndDate	date	0..1	The date when the catching of the fish ended.	WR 13-000010
Attribute	catchStartDate	date	0..1	The date when the catching of the fish begun.	WR 13-000010
Attribute	firstFreezeDate	date	0..1	The date of initial freezing, if different from the date of production.	WR 14-000072
Association	aquaCultureProductionUnit	TransactionalParty	0..1	Identification of the aquaculture production unit.	WR 13-000010
Association	fishingVessel	TransactionalParty	0..1	Identification of the fishing vessel.	WR 13-000010
Association	placeOfSlaughter	TransactionalParty	0..1	Place of slaughter of the aqua culture products.	WR 15-000037
Association	portOfLanding	TransactionalParty	0..1	Port of landing of the fishing vessel.	WR 15-000037
Association	dateOfLanding	DateOptionalTime	0..1	Date when the fishing vessel has landed in the port of landing.	WR 15-000037
Association	dateOfSlaughter	DateOptionalTime	0..1	Date when the aqua culture product has been slaughtered.	WR 15-000037

Note: Reference Shared Common Library Business Message (BMS) Release 3.6 and eCom Domain Common Library Business Message (BMS) Release 3.6 for all common information.

4.2   Enumerations (message specific)

Not applicable

4.3   Code Lists

Class	Codelist	Referenced in
FishCatchOrProduction	CatchAreaCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:CatchAreaCode* ✓ **Note:** This is a code list developed and managed by FAO, fully adopted by GS1. The code list values can be accessed here: *http://www.fao.org/fishery/area/search/en*
FishCatchOrProduction	CountryCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:CountryCode* ✓ **Note:** GS1 uses the ISO 3166-1 Code List to populate Country Code. The use of either the alpha-2 codes (e.g. FR) or the ISO 3166-1 numeric (e.g. 250) is determined by implementation.
FishDespatchAdviceLineItemExtension	aquaticSpeciesCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:AquaticSpeciesCode* ✓ **Note:** This is a code list developed and managed by FAO, fully adopted by GS1. The code list values can be accessed here: *ftp://ftp.fao.org/FI/STAT/DATA/ASFIS_sp.zip*
FishDespatchAdviceLineItemExtension	StorageStateCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:StorageStateCode*
FishCatchOrProduction	ProductionMethodForFishAndSeaFoodCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:ProductionMethodForFishAndSeaFoodCode*
FishCatchOrProduction	FishingGearTypeCode	*http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN= urn:gs1:gdd:cl:FishingGearTypeCode* ✓ **Note:** This is a code list developed and managed by FAO, fully adopted by GS1. The code list values can be accessed here: *ftp://ftp.fao.org/FI/DOCUMENT/cwp/handbook/annex/AnnexM1 fishinggear.pdf*

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

5 Business Message Examples

5.1 Example

This is an example of a Fish Traceability Line Item Extension to the Despatch Advice message. The message is sent on August 20th 2014 at 10.00 AM by the Shipper (GLN 4098765000010) to the Receiver (GLN 5412345000013). The message is identification number is DA349855.

Party Information

GS1 Global Location Number	Party Type
5412345000013	Receiver
4098765000010	Shipper
5412345000037	Ship to
0123654789630	Shipping Vessel

The Fish Traceability extension announces the despatch of Atlantic cod (species code value COD), caught on August 13th 2014 near Cape Hatteras, denoted as Catch Area Code 21.6. The fish was caught by the vessel named Northern Star (GLN 0123654789630). Fish was initially frozen on August 13th 2014.

Message Example

Attribute	Value
DespatchAdvice	
Document	
creationDateTime	2014-08-20 10:00
documentStatus	ORIGINAL
EntityIdentification (+despatchAdviceIdentification)	
entityIdentification	DA349855
PartyIdentification (+contentOwner)	
gln	4098765000010
TransactionalParty (+shipper)	
gln	4098765000010
TransactionalParty (+receiver)	
gln	5412345000013
TransactionalParty (+shipTo)	
gln	5412345000037
DespatchInformation	
actualShipDateTime	2014-08-20 11:00
DespatchAdviceLogisticUnit	
DespatchAdviceLineItem	
lineItemNumber	1
despatchedQuantity	700
FishDespatchAdviceLineItemExtension	
Code (+fishSizeCode)	3
codeListAgencyName	European Communities

Attribute	Value
codeListName	EuropeanFishSizeCode
Code (+fishPresentationCode)	FIL
codeListAgencyName	European Communities
codeListVersion	1.2
codeListName	EuropeanFishPresentationCode
Code (+qualityGradeCode)	A
codeListAgencyName	European Communities
codeListName	EuropeanQualityGradeCode
aquaticSpeciesCode	COD
codeListVersion	2014
aquaticSpeciesName	Gadus morhua
storageStateCode	PREVIOUSLY_FROZEN
FishCatchOrProduction	
CatchAreaCode (+catchArea)	21.6
FishingGearTypeCode (+fishingGearTypeCode)	SV
CountryCode (+productioncountry)	US
ProductionMethodForFishAndSeafoodCode (productionMethodForFishAndSeafoodCode)	MARINE_FISHERY
FishCatchOrProductionDates	
Date (+catchDateTime)	2014-08-13
DateOfCatchProcessTypeCode (+dateOfCatchProcessTypeCode)	REAL_TIME
Date (+firstFreezeDate)	2014-08-13
PartyIdentification (+fishingVessel)	
gln	0123654789630
name	Northern Star
TransactionalTradeItemIdentification (+requestedItemIdentification)	
gtin	40987650000346

6 Implementation Considerations

6.1 User Guide

The Functional User Guide Order contains more information about the structure and content of the Despatch Advice Line Item Fish Traceability Extension:
http://www.gs1.org/docs/ecom/xml/3/3.4/eCom-Trade_messages.html#FishExtension

6.2 Message Specific Considerations

A number of attributes in the Fish Traceability Extension are defined as the Code data type. This type allows for use of bilaterally defined code lists, which should be mutually agreed between trading partners, GS1 does not specify the code list to be used. The Code type is used when there are multiple code lists that could be implemented depending e.g. on the industry or geopolitical region.

For products intended for the European market the following code lists should be used:

- For attribute **fishSizeCode**: EU Fish Size Code - Official Journal of the European Communities No. L 334/1 dated 23 Dec 96

- For attribute **qualityGradeCode**: EuropeanQualityGradeCode EU Fish Freshness Code: COUNCIL REGULATION (EC) No 2406/96 of 26 November 1996 laying down common marketing standards for certain fishery products *http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:31996R2406&from=EN*

- For attribute **fishPresentationCode**: EuropeanFishPresentationCode *http://ec.europa.eu/fisheries/cfp/control/codes/code-fishpresentation.xls v1.2*

The Code data type contains a number of optional attributes. At least the following attributes should be used for the three above mentioned European code lists:

- codeListAgencyName

- codeListName

7   Summary of Changes

Any change in the GS1 standards is done based on the Work Request (WR) submitted by the GS1 User Companies or Member Organisations. All Work Requests are documented in the Work Request system available on the GS1 website: ***http://wr.gs1.org***. The system is accessible to registered users. New visitors need to register first, to be able to access it. WRs can be searched by the number referenced in tables below, see: Search Work Requests. The number starts with the two last digits of the year when it was submitted, followed by the consecutive number within that year.

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

7.1   BMS Release 3.2

Change	Associated WR
Initial Document Creation	13-000010 14-000049 14-000072

7.2   BMS Release 3.3

Change	Associated WR
Added associations to TransactionalParty named +placeOfSlaughter and +portOfLanding	**15-000037**

Change	Associated WR
Added associations to DateOptionalTime named +dateOfLanding and + dateOfSlaughter	**15-000037**

7.3   BMS Release 3.4

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

7.4   BMS Release 3.5

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

7.5   BMS Release 3.5.1

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

7.6   BMS Release 3.6

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

8   Appendices

Not Applicable

9   Acknowledgements

9.1   Work Group

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