



**UN/CEFACT**

SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES

FOR GLOBAL BUSINESS

# **BUSINESS REQUIREMENTS SPECIFICATION (BRS)**

## **Sales domain**

**Business domain:** Fisheries

**Business process:** Electronic data exchange for fisheries control and management

**Document identification:** P1000 – 5; Sales domain

**Title:** Fisheries Language for Universal eXchange

**UN/CEFACT International Trade and Business Processes Group:**

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# Business Requirements Specification

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## **1 Preamble**

This BRS document builds upon the general principles set out in the P1000-1; General Principles BRS document; It details the Sales business domain identified in P1000-5.

This BRS is standardizing a part of reporting data exchanges between state administrations, using the UN/CEFACT Modelling Methodology (UMM) approach and Unified Modelling Language.

The structure of this document is based on the structure of the UN/CEFACT Business Requirements Specification (BRS) document reference CEFACT/ICG/005.

## **2 References**

UN/CEFACT Modelling Methodology User Guide (CEFACT/TMG/N093)

UN/CEFACT Business Requirement Specification Document Template (CEFACT/ICG/005)

UN/CEFACT FLUX General Principles Business Requirement Specification Document (v2.x)

### 3 Objective

The objective of this document is to propose a standard for exchanging data between stakeholders in the context of transmitting sales, take-over & transport documents.

### 4 Scope

This document covers the exchange of information between different stakeholders about fisheries products after the landing operation of these products until the first sales. Between these two operations, a transport document is issued when fisheries products are transported from one loading place to a destination and a take-over document when they are temporarily stored. A sales note is eventually transmitted when fish is sold at first sales.

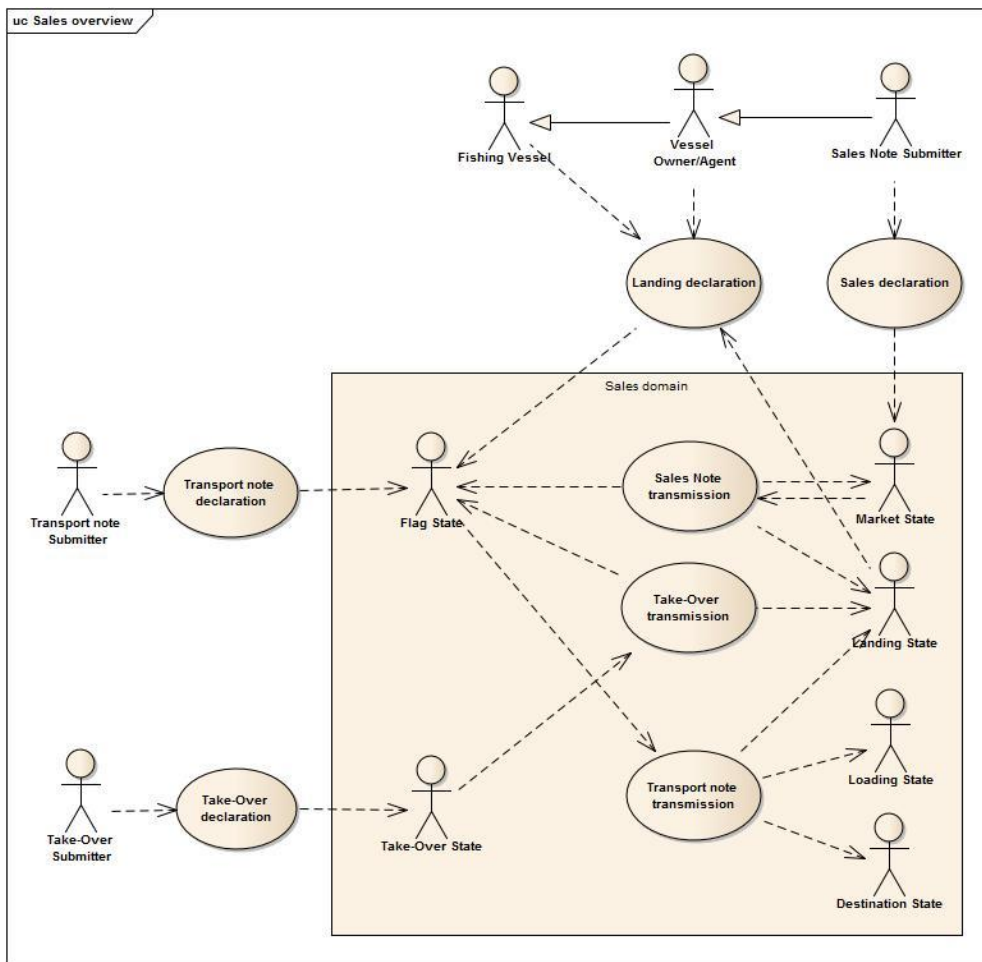


Figure 1: Sales domain overview diagram.

As described in Figure 1, Sales domain covers transmission of documents occurring after the landing of fish up to the first sales.

Categories	Description and Values
Business Process	General Message Exchange
Product Classification	None
Industry Classification	Fisheries sector
Geopolitical	Global
Official Constraints	International regulations, agreements and conventions National regulations Technical measures
Business Process Role	None
Supporting Role	None
System Capabilities	None

## 5 Stakeholders

Flag State	The State where the fishing vessel is registered.
Landing State	The State controlling the landings of the products concerned by a first marketing.
Market State	The State in whose territory the first sales of fisheries products takes place.
Take-Over State	The administration of the MS where the take-over took place.
Sales note submitter	Responsible of the submission of the sales note document usually a buyer, an auction or other body or person authorized by Market State which are responsible of the first marketing of fisheries products.
Take-Over	Registered buyers, registered auctions or other bodies or persons authorized by MS which are responsible of the first marketing of fisheries



Submitter	products generating the take-over document.
Transport Doc Submitter	Responsible of the submission of the transport document for the transport of fisheries products from the loading place to a destination.
Loading State	The State in which the fisheries products are loaded for transport.
Destination State	The State where the fisheries products are transported.
International Institutions	International Institutions are often given the mandate to collect data from their members and disseminate data on their behalf, and may therefore be considered both holder and provider of the data, as the case may be.

## 6 Business requirements

### 6.1 Business requirements view

Sales Report includes the potentially transmitted documents such as Sales Note; Take-Over and Transport documents. The sales process follows the same rules of transmission and query. Depending on the context, each stakeholder can play the role of a Sales Report Submitter or a Sales Report Receiver.

Additionally, each stakeholder can also be involved in the Query for Sales Information mechanism. The response to a query depends on the type of report selected, such as all type, Sales Note only, etc. Additional parameters, such as type of market or vessel identification, specifying what sub element the query is based on can be used. In case of querying for a specific document, an identification of the document is specified.

### 6.2 Business requirements lists

The following tables list the requirements identified for this domain.

Number	Business Requirement Statement	Business Transaction Name for this Requirement
A1	An actor involved in the sales process, such as sales note submitter, take-over note submitter or transport note submitter, transmits sales reports to the appropriate administration.	Transmit Sales Report
A2	The submitter should be able to provide the result of his analysis in the transmitted report.	Transmit Sale Report Analysis
A3	An actor can query other parties for retrieving sales report information.  For retrieving report, some filters can be applied, such as: <ul style="list-style-type: none"> <li>– Sales reports for a certain period of time.</li> <li>– Sales reports identified by IDs or type.</li> </ul>	Query for Sales reports.
A4	The party receiving a query will reply either the acceptance or not of the query and a response with multiple sales reports with, optionally, the result of the analysis.	Response to Query

**Figure 2: Business Requirement List**

Number	Data Requirement Statement
B1	A sales report must have a unique identifier, creation date & time and purpose code <sup>1</sup> .
B2	A sales report must have a unique identifier and a type, such as sales note, take-over notes or transport note.

<sup>1</sup> FLUX General Principle rule: see FLUX P1000 – 1: General Principles BRS.

B3	A sales report may contain more than one sales document of the same type.
B4	A submitter or an administration can transmit the result of his analysis to others.
B5	A result of an analysis is at the level of the transmission, the sales report or the sales document.
B5	A party must be specified for a sales document.
B6	A sales document is related to a fishing activity, such as a landing operation, which belongs to a fishing vessel.
B6	A vehicle can be specified in a sales document, such as a transport note.
B7	The sales document must specify the sales occurrence with, optionally, the actors involved in the sales, the detail of the product sold and the total price.

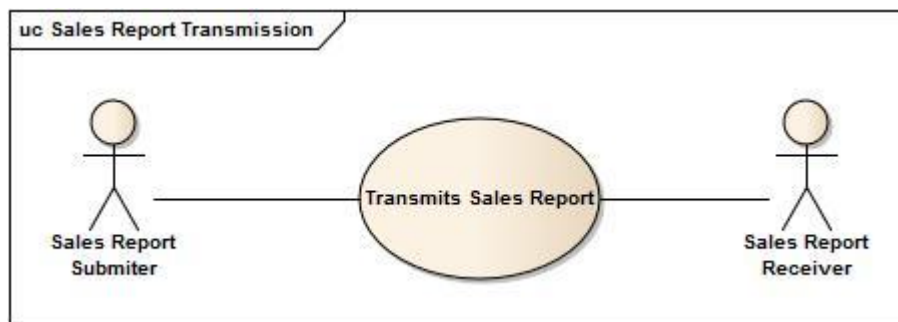
**Figure 3: Data Requirement List**

## 6.3 Business process elaboration

### 6.3.1 Sales Report Transmission message

#### Principles

A Sales Report Submitter, such as the vessel owner or agent, sends the document to a Sales Report Receiver, such as Flag State (FS); Landing State (LS); Market State (MS)



**Figure 4: Sales Report Transmission use case diagram**

#### Use case description

<b>Business process name</b>	Sales Report message transmission
<b>Identifier</b>	SRMT
<b>Actors</b>	Sales report submitter; Sales report receiver

<b>Description</b>	A submitter transmits a sales report message to a receiver.
<b>Pre-condition</b>	Underlying framework to exchange FLUX business messages
<b>Post-conditions</b>	None
<b>Scenarios</b>	None
<b>Remarks</b>	None

**6.3.2 Query for Sales Report Information**

**Principles**

A Sales Report Querier, such as Flag State (FS); Landing State (LS), queries a Sales Report Information Holder for information about one or more sales document is holding. The Sales Report Information Holder replies back an answer containing or not the requested information.

**Use Case**



**Figure 5: Use Case diagram for Query for Sales Report Information message transmission**

<b>Business process name</b>	Query for Sales document Information
<b>Identifier</b>	QSDI
<b>Actors</b>	Sales Document Information Querier; Sales Doument Information Holder
<b>Description</b>	A querier ask for receiving a list of reports depending of the type selected.
<b>Pre-condition</b>	Underlying framework to exchange FLUX business messages
<b>Post-conditions</b>	None
<b>Scenarios</b>	None
<b>Remarks</b>	None

## 6.4 Information flow definition (activity diagram, description)

### 6.4.1 Sales Report message exchange

In accordance with the FLUX general principles, all transmissions will end in a response from message receiver to message sender, indicating whether the message has been processed successfully or otherwise.

#### Activity Diagram

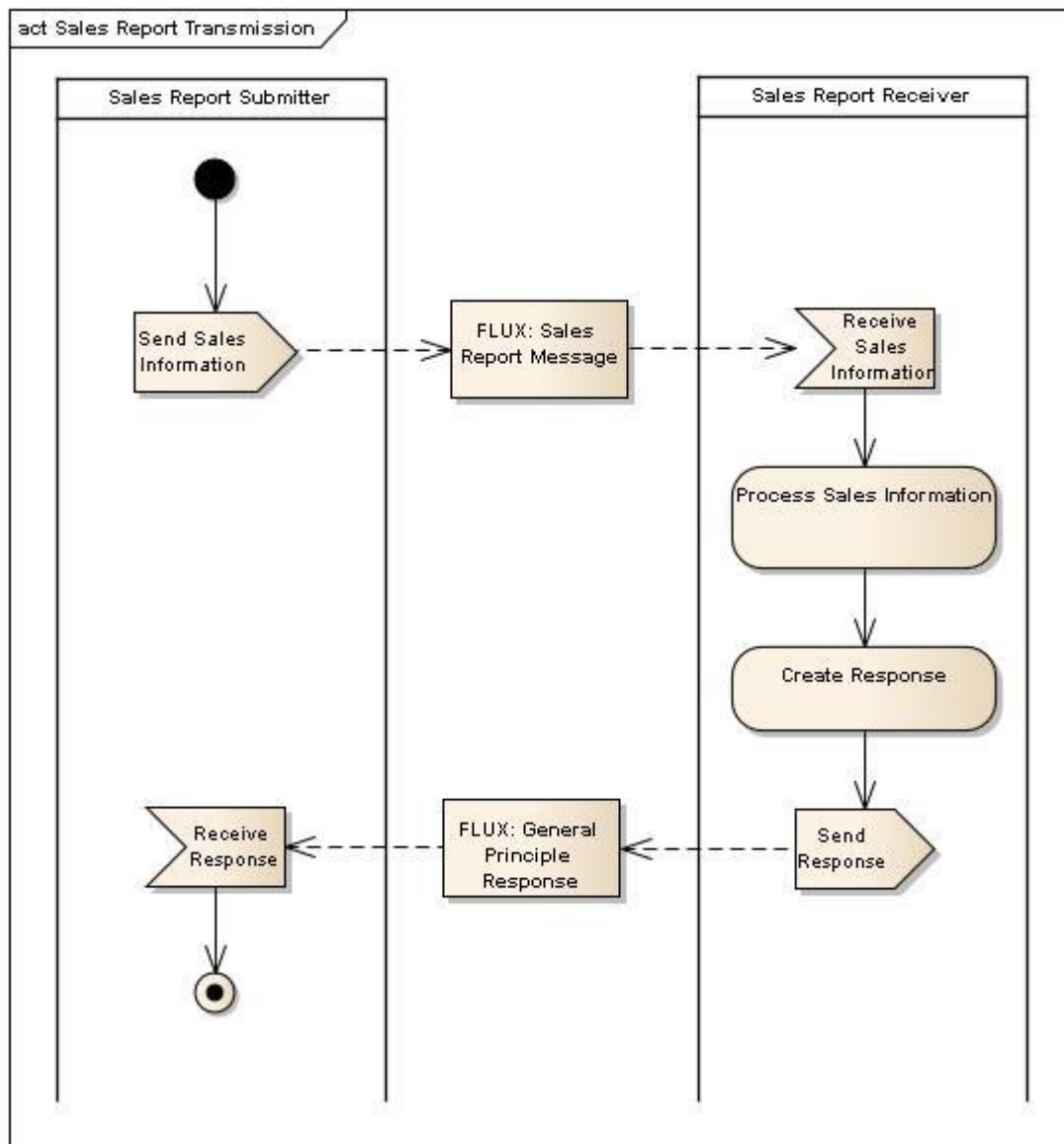


Figure 6 Activity Diagram for Sales Report Transmission

## 6.4.2 Query for Sales Report Information message transmission

A Sales Report Information Querier, such as the Flag State, the Landing State or an International Institution, may request to a Sales Report Information Holder, such as the Market State, the list of sales notes about fisheries products originated from his fishing vessels or landed on its territory; take-over when fisheries products are intended for sale at a later stage meaning that no sales notes have been produced for that products in a time frame; or transport document when fisheries products are conveyed by a transport means from a place of landing to a place for being sold.

### Activity Diagram

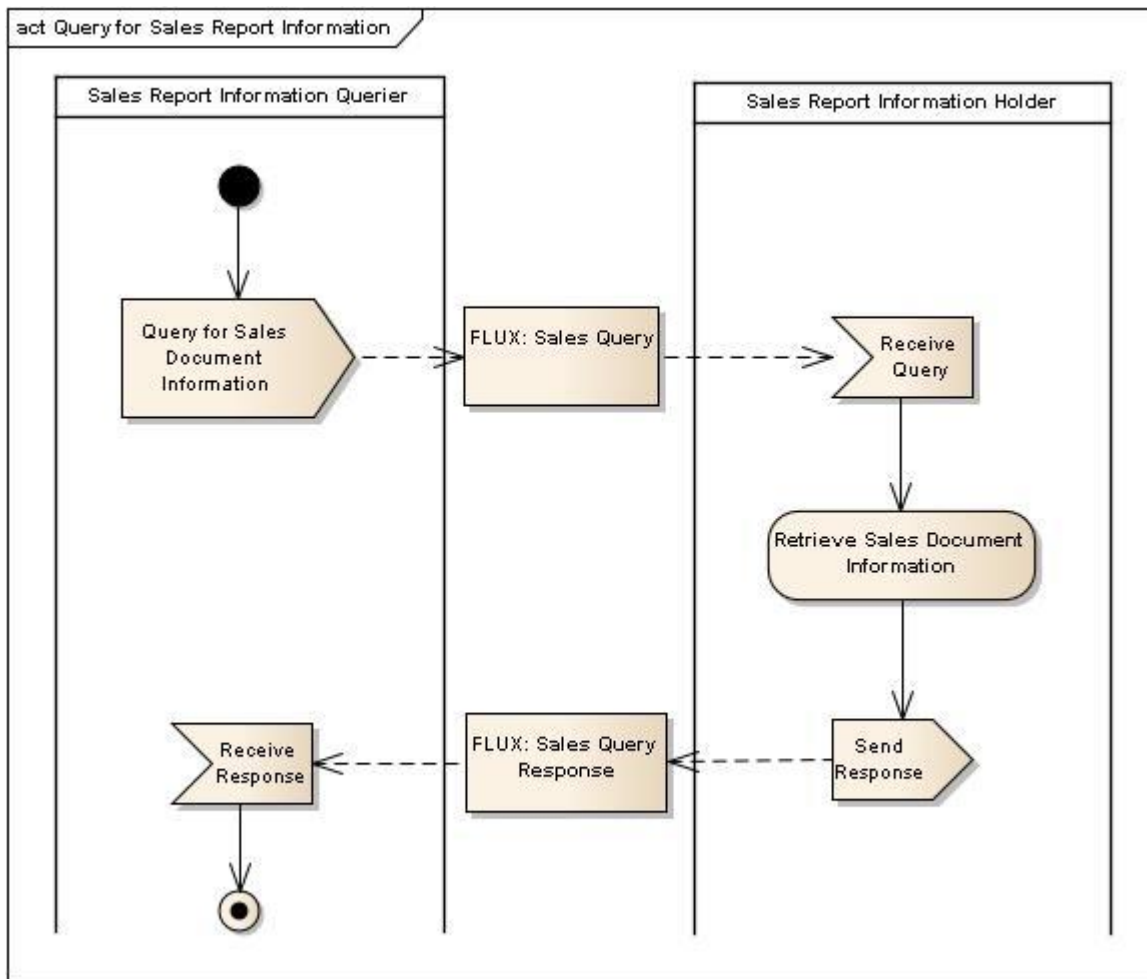


Figure 7: Activity Diagram for Query for Sales Report Information message transmission

## 6.5 Information model definition (class diagram)

The Class diagram describes all the necessary classes of information for a flow of information exchange for the Sales message transmission case.

### 6.5.1 FLUX Sales Report Declaration:

Description: The type of message which is used when reporting for sales, take-over or transport information<sup>2</sup>.

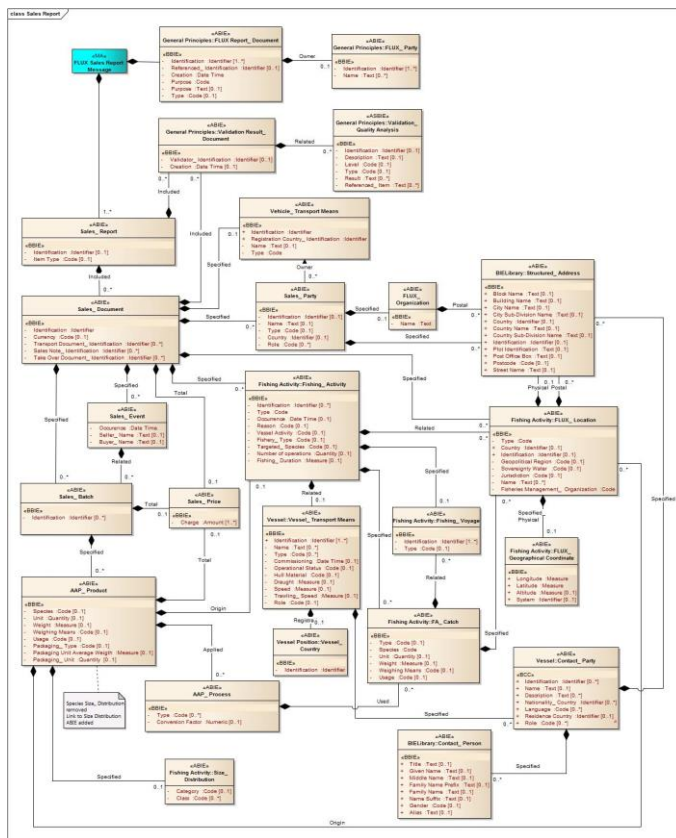


Figure 8: class diagram Sales Report Message

<sup>2</sup> The definition of base entities such as *FLUX Report\_Document*, *FLUX\_Party* can be found in *General principles BRS* document. The definition of entities such as *Vessel\_Transport Means* can be found in *FLUX P1000-2; Vessel BRS* document.

Entities such as *FA\_Catch* or *Fishing\_Activity* entity are defined in *P1000 – 3; Fishing Activity domain BRS* document.

The definition of *Vessel\_Transport Means* entity and all related entities can be found in *FLUX P1000-2; Vessel BRS* document. *Vessel\_Country* entity is defined in *FLUX P1000-7; Vessel Position BRS* document.

## **Sales Report Entity**

Description: Entity used to provide information of a record of products sold, such as a sales note report, takeover note report or transport note report.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
0..1	Identification	Att	Identifier	The identifier of this sales report.
0..1	Item_Type	Att	Code	The code specifying the type of the item in this sales report.
0..n	Included	Ass	Sales_Document	A sales document included in this report.
0..n	Included	Ass	Validation Document <sup>3</sup>	Result A result document of a validation process for this sales report.

## **Sales Document Entity**

Description: Entity used as a document that provides information for a specific sale or sales.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1	Identification	Att	Identifier	The identifier of this sales document.
0..1	Currency	Att	Code	The code specifying the currency for the sales in this sales document.
0..n	Transport Document_ Identification	Att	Identifier	A transport document identifier for this sales document.
0..n	Sales Note_ Identification	Att	Identifier	A sales note identifier for this sales document.
0..n	Take Over Document_ Identification	Att	Identifier	A takeover document identifier for this sales document.
0..n	Specified	Ass	Sales_Batch	A batch specified for this sales document.
0..n	Specified	Ass	Sales_Event	An event specified for this sales document.
0..n	Specified	Ass	Fishing_Activity <sup>4</sup>	A fishing activity, such as landing operation, specified for this sales document.

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<sup>3</sup> The definition of entities such as *Validation Result\_Document* & *Validation\_Quality Analysis* can be found in the *FLUX P1000-1; General principles BRS* document.

<sup>4</sup> The definition of entities such as *Fishing\_Activity* can be found in *P1000 – 3; Fishing Activity BRS* document.



0..n	Specified	Ass	FLUX_ Location	A Fisheries Language for Universal eXchange (FLUX) location specified for this sales document.
0..n	Specified	Ass	Sales_ Party	A sales party specified in this sales document.
0..1	Specified	Ass	Vehicle_ Transport Means	The vehicle transport means specified in this sales document.
0..n	Related	Ass	Validation Document <sup>5</sup> Result	A result document of a validation process related to this sales document.
0..1	Total	Ass	Sales_ Price	The total sales price in this sales document.

### **Sales Party Entity**

Description: Entity used to provide information of an individual, a group, or a body having a role in a sales business function.

Mult.	Business term	Rel.	Type	Description
0..1	Identification	Att	Identifier	The identifier of this sales party.
0..1	Name	Att	Text	The name, expressed as text, of this sales party.
0..1	Type	Att	Code	The code specifying the type of sales party.
0..1	Country	Att	Identifier	The country identifier for this sales party.
0..n	Role	Att	Code	A code specifying the role of this sales party.
0..n	Specified	Ass	Structured_ Address	A structured address specified for this sales party.
0..1	Specified	Ass	FLUX_ Organization	The Fisheries Language for Universal eXchange (FLUX) organization specified for this sales party.

### **Sales Batch Entity**

Description: Entity used to provide information of a group of products dealt with together for selling.

Mult.	Business term	Rel.	Type	Description
0..n	Identification	Att	Identifier	An identifier for this sales batch.
0..n	Specified	Ass	AAP Sales_ Product	An Aquatic Animals & Plants (AAP) product specified for this sales batch.

<sup>5</sup> Entities such as *Validation Result\_ Document* & *Validation\_ Quality Analysis* are defined in the *FLUX P1000-1; General principles BRS* document.

0..1	Total	Ass	Sales_Price	The total sales price for this batch.
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## **AAP Product Entity**

Description: Entity used to provide information on an Aquatic Animals or Plants (AAP) output produced by human or mechanical effort or by a natural process.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
0..1	Species	Att	Code	The code specifying the species for this AAP product, such as the Food and Agriculture Organization (FAO) code.
0..1	Unit	Att	Quantity	The unit quantity for this AAP product.
0..1	Weight	Att	Measure	The measure of the weight of this AAP product.
0..1	Weighing Means	Att	Code	The code specifying the means of weighing for this AAP product.
0..1	Usage	Att	Code	The code specifying a usage for this AAP product.
0..1	Packaging_Type	Att	Code	The code specifying the type of packaging for this AAP product.
0..1	Packaging Unit Average_Weight	Att	Measure	The measure of the average weight of a packaging unit for this AAP product.
0..1	Packaging_Unit	Att	Quantity	The quantity of packaging units for this AAP product.
0..n	Applied	Ass	Fish_Process	A process applied to this AAP product.
0..1	Total	Ass	Sales_Price	The total sales price for this AAP product.
0..n	Origin	Ass	FLUX_Location <sup>6</sup>	A Fisheries Language for Universal eXchange (FLUX) location from which this AAP product originates.
0..1	Specified	Ass	Size_Distribution	The size distribution specified for this AAP product.
0..1	Origin	Ass	Fishing_Activity <sup>7</sup>	The fishing activity from which this AAP product originates.

<sup>6</sup> The definition of entities such as *FLUX\_Location* & *Size\_Distribution* can be found in *P1000 – 3; Fishing Activity domain BRS* document.

<sup>7</sup> The definition of *Fishing\_Activity* entity can be found in *P1000 – 3; Fishing Activity domain BRS* document.

### **AAP Process Entity**

Description: Entity providing information of a designed sequence of operations applied on Aquatic Animal or Plants (AAP).

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1..n	Type	Att	Code	A code specifying the type for the fish process, such as presentation type, preservation type.
0..1	Conversion Factor	Att	Numeric	The number used as the conversion factor for this AAP process.
0..n	Used	Ass	FA_Catch	A Fishing Activity (FA) catch used for this AAP process.

### **Sales Price Entity**

Description: Entity providing information of a sum of money for which something is or may be sold.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1..n	Charge	Att	Amount	A monetary value of this sales price charged.

### **Sales Event Entity**

Description: Entity providing information of a significant occurrence or happening related to a sales activity or sales business.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1	Occurrence	Att	Date Time	The date, time, date time, or other date time value of an occurrence of this sales event.
0..1	Seller_ Name	Att	Text	The name of the seller, such as company name or name of individual, expressed as text, for this sales event.
0..1	Buyer_ Name	Att	Text	The name of the buyer, such as company name or name of individual, expressed as text, for this sales event.

0..n	Related	Ass	Sales_Batch	A batch related to this sales event.
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### **FLUX Organization Entity**

Description: Entity used to provide information of an organization, such as a business or government body, that participates in a Fisheries Language for Universal eXchange (FLUX) process.

Mult.	Business term	Rel.	Type	Description
1	Name	Att	Text	The name, expressed as text, of this FLUX organization.
0..n	Postal	Ass	Structured_Address	Structured postal address information for this FLUX organization.

### **Structured Address Entity**

Description: Entity providing information of the location, using a structured address format, at which a particular organization or person may be found or reached.

Mult.	Business term	Rel.	Type	Description
0..1	Block Name	Att	Text	The block name, expressed as text, for an area surrounded by streets for this structured address.
0..1	Building Name	Att	Text	The name, expressed as text, of a building, a house or other structure on a street in the structured address.
0..1	City Name	Att	Text	The name, expressed as text, of the city, town or village in the structured address.
0..1	City Sub-Division Name	Att	Text	The name, expressed as text, of a sub-division of a city, town or village in the structured address.
0..1	Country	Att	Identifier	The unique identifier of a country in the structured address (Reference ISO 3166 and UN/ECE Rec 3).
0..1	Country Name	Att	Text	The name, expressed as text, of the country in the structured address.
0..1	Country Sub-Division Name	Att	Text	The name, expressed as text, of the sub-division of a country in the structured address.
0..1	Identification	Att	Identifier	The unique identifier in the structured address.
0..1	Plot Identification	Att	Text	The identification, expressed as text, of the plot for this structured address.
0..1	Post Office Box	Att	Text	The unique identifier, expressed as text, of a container commonly referred to as a box, in a post office or other postal service location, where postal

				items may be kept for this structured address.
0..1	Postcode	Att	Code	The code specifying the postcode in the structured address.
0..1	Street Name	Att	Text	The name, expressed as text, of a street or thoroughfare in the structured address.

### **Vehicle Transport Means Entity**

Description: Entity used to provide information of the identification and registration of a vehicle, such as a truck or lorry.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1	Identification	Att	Identifier	The identifier of this vehicle transport means.
1	Registration Identification Country_	Att	Identifier	The identifier of the country of registration for this vehicle transport means.
0..1	Name	Att	Text	The name, expressed as text, of this vehicle transport means.
1	Type	Att	Code	The code specifying a type of vehicle transport means.
1	Owner	Ass	Sales_Party	The sales party owning this vehicle transport means.

## 6.5.2 FLUX Query Sales Information Declaration:

Description: The type of message which is used for querying for sales information, such as sales note, take-over or transport<sup>8</sup>.

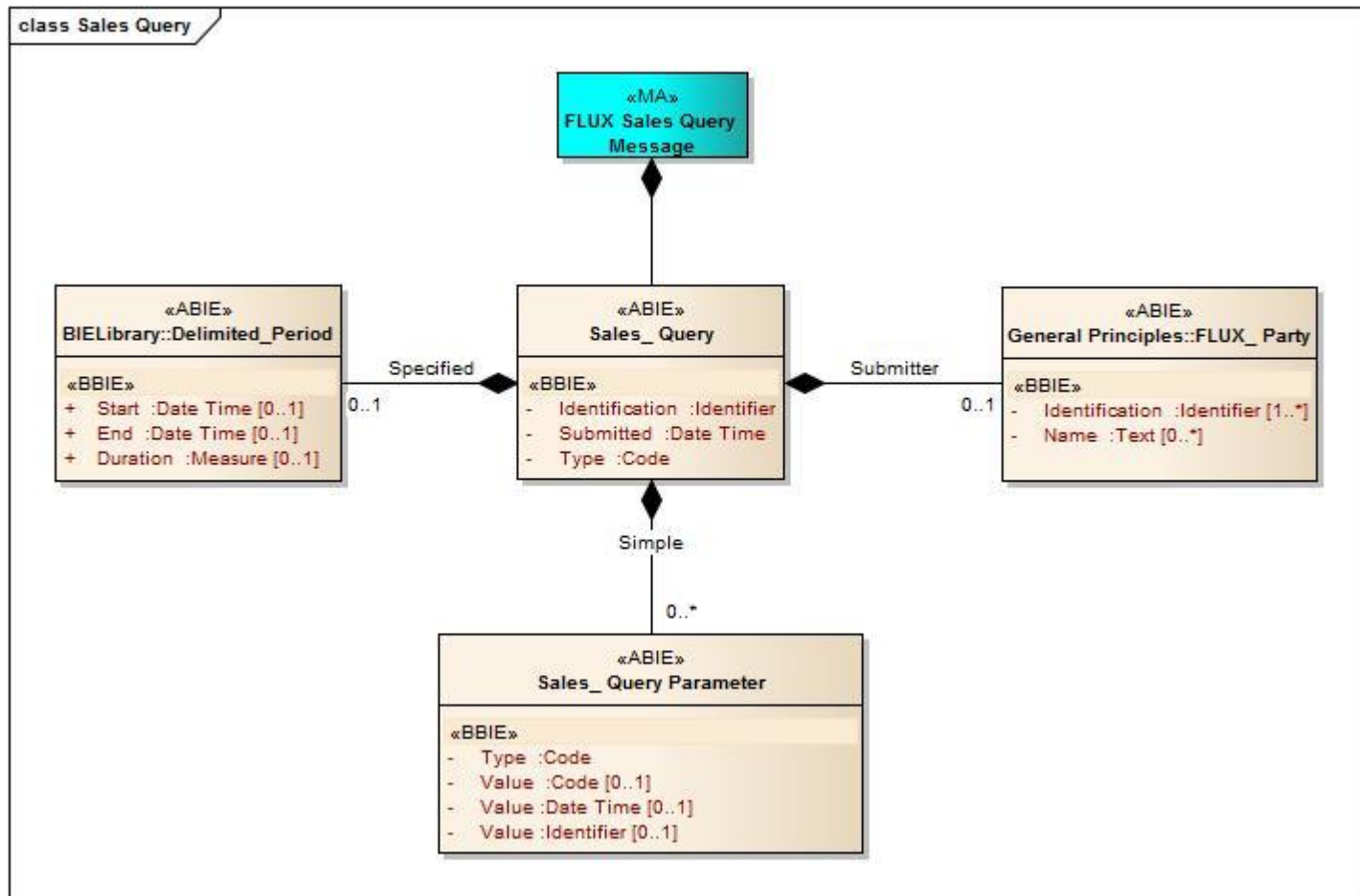


Figure 9: Class Diagram for Sales Query message.

<sup>8</sup> General Principles entities, such as *FLUX\_Party*, are defined in FLUX P1000-1; general principles BRS document.

## Sales Query Entity

Description: Entity containing a formally raised question or request for information related to a sale, such as for a sales note, takeover or transport document.

Mult.	Business term	Rel.	Type	Description
1	Identification	Att	Identifier	The identifier for this sales query.
1	Submitted	Att	Date Time	A date, time, date time, or other date time value when this sales query was submitted.
1	Type	Att	Code	A code specifying the type of sales query.
0..1	Specified	Ass	Delimited_Period	The delimited period of time specified for this sales query.
0..1	Submitter	Ass	FLUX_Party	The Fisheries Language for Universal eXchange (FLUX) party that submits this sales query.
0..n	Simple	Ass	Sale_Query Parameter	A simple sale query parameter for this sales query.

## Sales Query Parameter Entity

Description: Entity containing information that limits or restricts the scope of a sale query.

Mult.	Business term	Rel.	Type	Description
1	Type	Att	Code	The code specifying the type of parameter for this sales query
0..1	Value	Att	Code	The value, expressed as a code, for this sales query parameter.
0..1	Value	Att	Date Time	The value, expressed as a date, time, date time, or other date time value, for this sales query parameter.
0..1	Value	Att	Identifier	The value, expressed as an identifier, for this sales query parameter.

