



FLUX Implementation documents

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Geneva, 23-24/04/2018

Fisheries



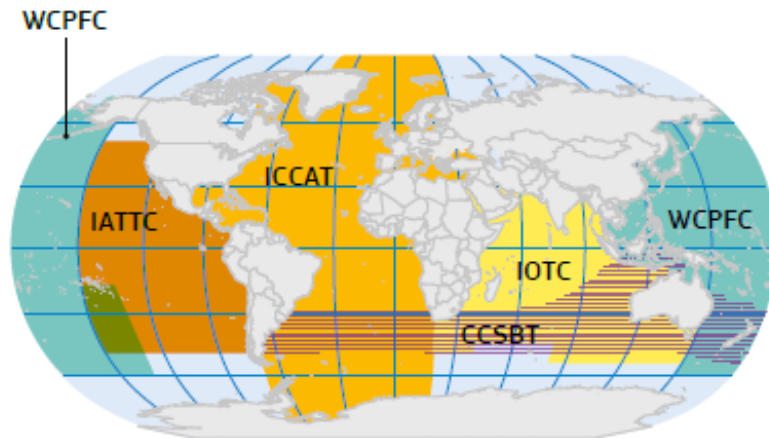
Presentation points

- **Why Implementation document?**
- **What is Implementation document?**
- **ACDR example**
- **For Your Info**



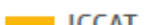




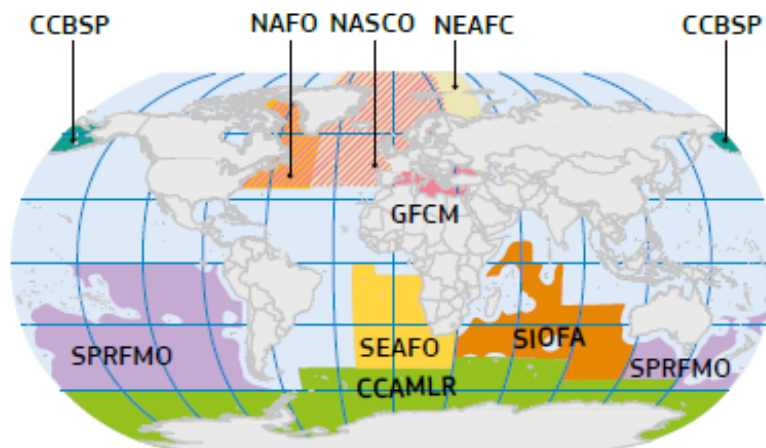
Why Implementation documents?

Fisheries stakeholders (RFMOs)



RFMOs for highly migratory fish stocks (tuna and associated species)

-  CCSBT Commission for the Conservation of Southern Bluefin Tuna
-  IATTC Inter-American Tropical Tuna Commission
-  ICCAT International Commission for the Conservation of Atlantic Tunas
-  WCPFC Western and Central Pacific Fisheries Commission
-  IOTC Indian Ocean Tuna Commission



RFMOs for non-tuna species

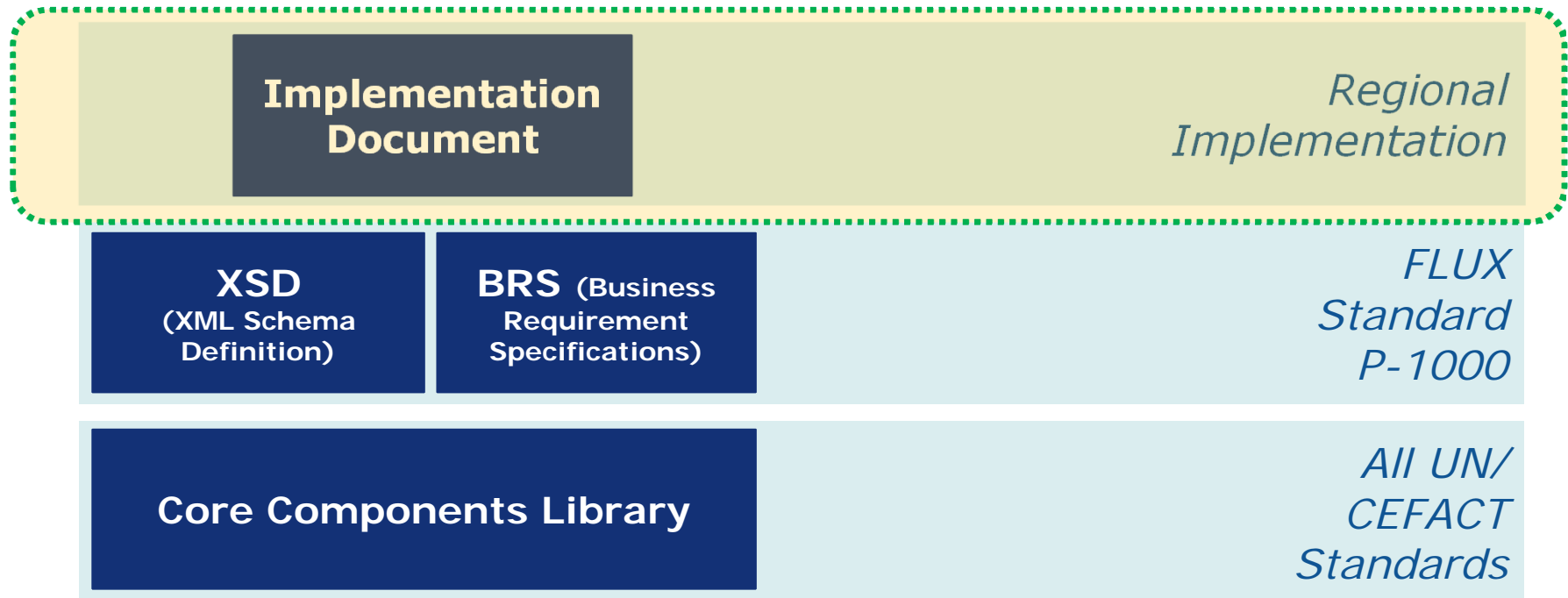
-  CCAMLR Commission for the Conservation of Antarctic Marine Living Resources
-  CCBSP Convention on the Conservation and Management of Pollock Resources in the Central Bering Sea
-  GFCM General Fisheries Commission for the Mediterranean
-  NEAFC North East Atlantic Fisheries Commission
-  NASCO North Atlantic Salmon Conservation Organization
-  NAFO Northwest Atlantic Fisheries Organization
-  SEAFO South East Atlantic Fisheries Organization
-  SPRFMO South Pacific Regional Fisheries Management Organization
-  SIOFA South Indian Ocean Fisheries Agreement

Source: European Commission – Eurostat/GISCO. Administrative boundaries: © EuroGeographics, © FAO (UN), © TurkStat

FLUX P1000 standards

Standard	Name	Description
P1000-1	GP	General principles - basic entities applied to all FLUX standards
P1000-2	Fishing Vessel	Information on vessel characteristics
P1000-3	Fishing Activity	Information on fishing vessel activities, including logbook, notifications, declarations, etc.
P1000-5	Sales	Information on fish after landing and till first sales. Sales note, take-over note, transport document
P1000-7	Vessel Position	VMS data
P1000-8	Inspection Report	Electronic inspection reports
P1000-9	FLAP	Fishing Licenses; Authorisations & Permits
P1000-10	MDM	Master Data Management – information on code lists
P1000-12	ACDR	Aggregated Catch Data Reporting

Standardised Language: Wrap-up



I.D. purpose

- **Implementation documents**
 - set the rules on how the standard is used between data sender and receiver
 - can be specific for each situation
 - *regionally for each RFMO*
 - *bilaterally for each Agreement*



Implementation document content

I.D. content

- **Scope**
 - Actors
 - *Sender*
 - *Receiver*
- **Legal basis**
 - Why data needs to be exchanged?
- **References to technical things**
 - Which FLUX standards (XSDs) to be used
 - Master Data Register

I.D. content

- **Detailed specifications for regional rules**
 - How data is sent?
 - *Push*
 - *Pull*
 - When data is sent?
 - *periodicity*
 - *deadlines*
 - How to correct data?
 - *Update previous message?*
 - *Send a new message?*
 - What is data aggregation level?
 - *Per vessel?*
 - *Per month?*
 - *Per area?*
 - *Per haul?*

I.D. content

- **Data model (XSD) implementation**

- *Date – time format – UTC or local?*
- *Mandatory if... rules*
- *Field description or definition*
- *Code lists to be used*

- **Business rules – error messages**

- Technical rules
 - *Message conformity to XSD*
- Business rules
 - *Message content conformity to I.D.*

- **Business continuity procedures**

- How to communicate data when usage of FLUX standard is not possible?

I.D. content

- Example of XML message

```
</rsm:FLUXReportDocument>
<rsm:VesselEvent>
  <ram:TypeCode listID="VESSEL_EVENT">MOD</ram:TypeCode>
  <ram:OccurrenceDateTime>
    <udt:DateTime>2015-03-27T00:00:00Z</udt:DateTime>
  </ram:OccurrenceDateTime>
  <ram:RelatedVesselTransportMeans>
    <ram:ID schemeID="CFR">BEL000021964</ram:ID>
    <ram:ID schemeID="EXT_MARK">O.2</ram:ID>
    <ram:ID schemeID="IRCS">OPAB</ram:ID>
    <ram:ID schemeID="REG_NBR">002</ram:ID>
    <ram:ID schemeID="MMSI">123456789</ram:ID>
    <ram:ID schemeID="UVI">1234567</ram:ID>
    <ram:Name>MIKE MICHEL JR</ram:Name>
    <ram:TypeCode listID="VESSEL_TYPE">FX</ram:TypeCode>
    <ram:RegistrationVesselCountry>
      <ram:ID schemeID="TERRITORY">BEL</ram:ID>
    </ram:RegistrationVesselCountry>
    <ram:SpecifiedRegistrationEvent>
      <ram:RelatedRegistrationLocation>
        <ram:ID schemeID="VESSEL_PORT">OOSTE</ram:ID>
        <ram:TypeCode listID="FLUX_VESSEL_REGSTR_TYPE">PORT</ram:TypeCode>
      </ram:RelatedRegistrationLocation>
    </ram:SpecifiedRegistrationEvent>
  </ram:RelatedVesselTransportMeans>
</rsm:VesselEvent>
</rsm:FLUXReportDocument>
```





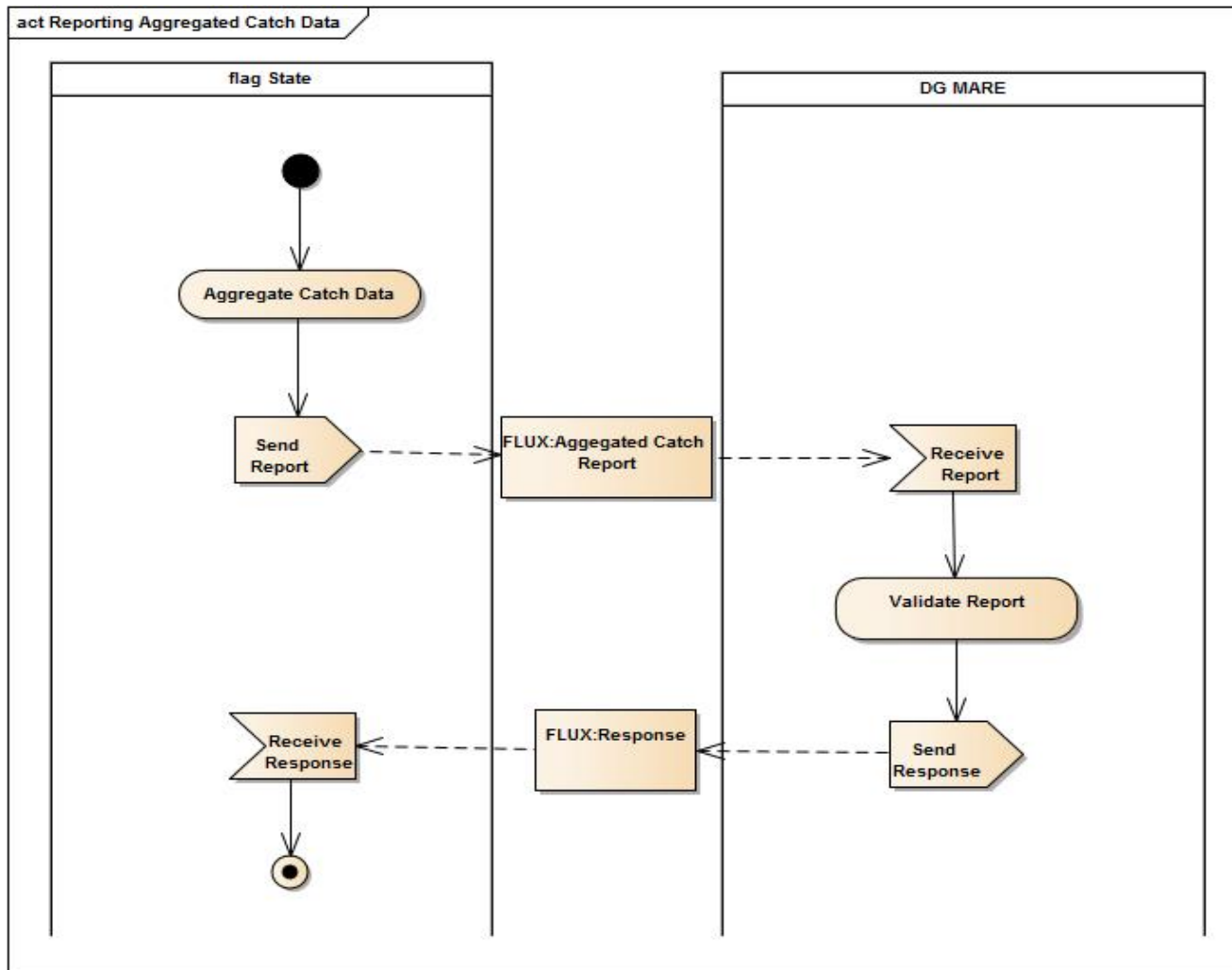
ACDR standard example

ACDR general principles

- **Legal basis**
 - Article 33 of the Council Regulation (EC) No 1224/2009 establishing a Community control system
- **Scope**
 - exchange of aggregated data between flag State and DG MARE about fish caught by the flag State's fishing fleet in the Reporting period

ACDR

- Workflow



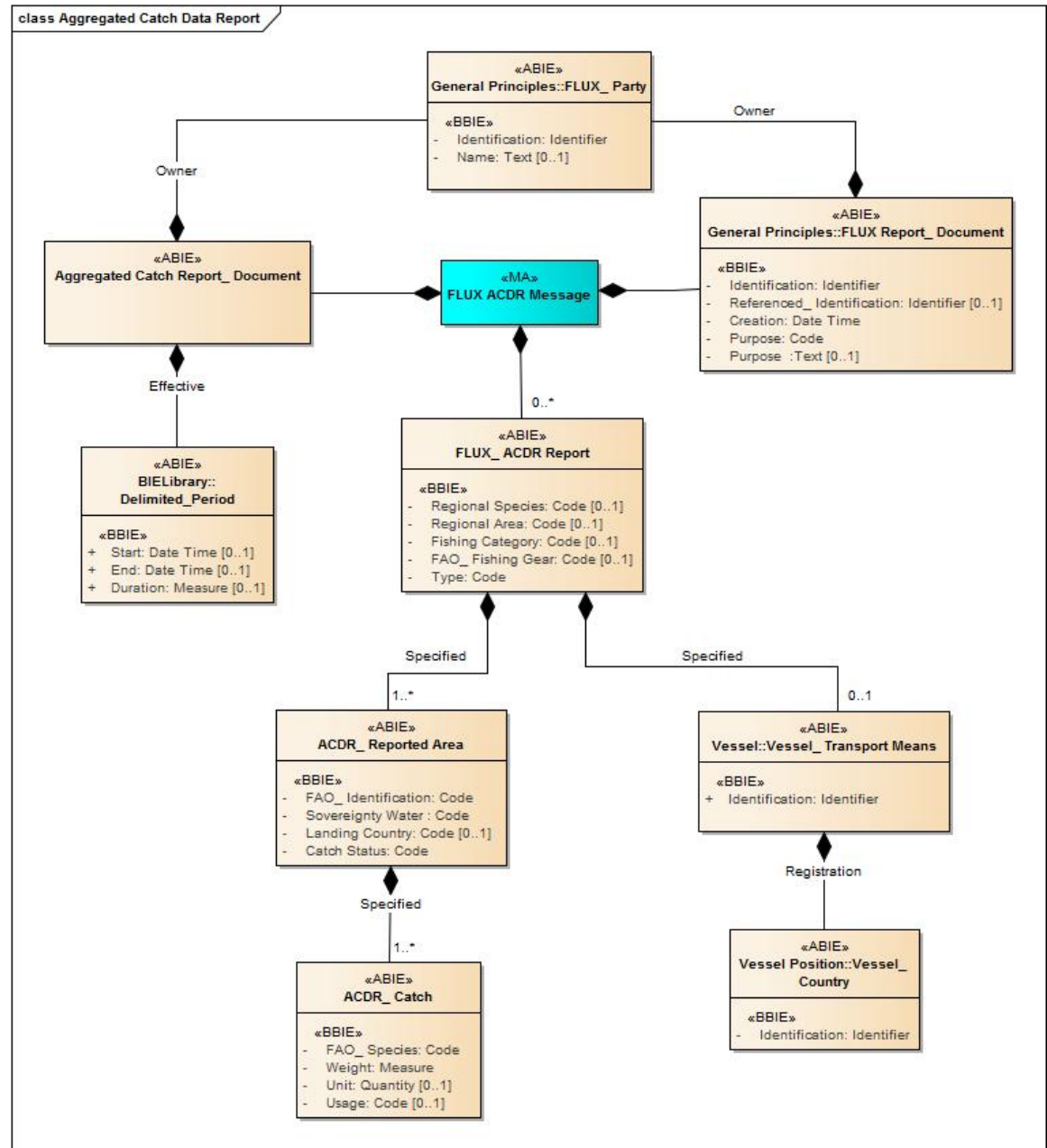
ACDR workflow

- **Main steps**
 - Data input from MS
 - Data validation
 - If OK, data is stored in DB



ACDR report

- Data exchange format
 - UN/CEFACT FLUX ACDR Message (v4.0)
 - 'EU' version



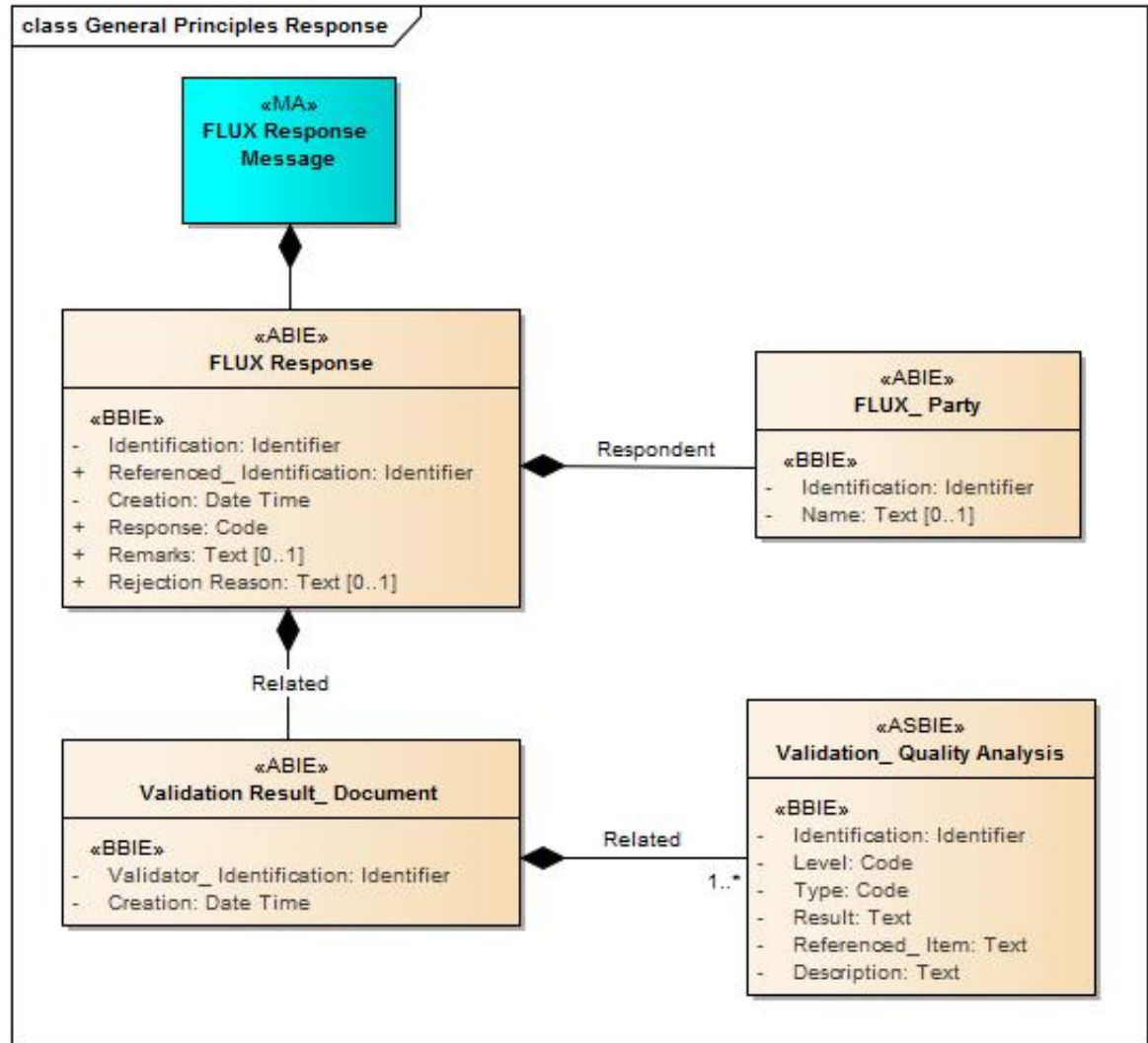
ACDR report details

FLUX_ACDR_Report		0	∞	Information contained in FLUX_ACDR_report	Can be omitted if reporting empty value (empty report). The list of elements and their cardinality (Optional / Mandatory) are described in Chapter 7.
Type	Code	1	1	The code specifying the type of this FLUX_ACDR_Report.	Code as defined in ACDR_REPORT_TYPE code list in MDR. (Attribute <i>listID</i> =ACDR_REPORT_TYPE).
Regional Area	Code	0	1	The code defined by a regional body and specifying an area of the fish stock. TAC Area code as defined in annual TAC and Quotas regulations.	Code as defined in QUOTA_LOCATION list in MDR. (Attribute <i>listID</i> =QUOTA_LOCATION).
Regional Species	Code	0	1	The code defined by a regional body and specifying species of the stock. TAC Species code as defined in annual TAC and Quotas regulations.	Code as defined in QUOTA_OBJECT list in MDR. (Attribute <i>listID</i> =QUOTA_OBJECT).
Fishing Category	Code	0	1	The code specifying a fishing category, such as the type of vessel, the type of fishing activity or the fishing gear deployed.	Fishing Category code list in MDR. (Attribute <i>listID</i> =CR_FISH_CATEGORY). Specific categories defined by ICCAT to be used for BFT catches (Type Code = ACDR-FISHING-GEAR).
FAO Fishing Gear	Code	0	1	The FAO code specifying the fishing gear. Gear used for fishing according to FAO International Standard Statistical Classification.	Use Gear Type code list in MDR. (Attribute <i>listID</i> =GEAR_TYPE).

- Entity name
- Field name
- Data type
- Cardinality
- Description
- Code lists
- Specific remarks

ACDR response

- Data exchange format
 - UN/CEFACT FLUX Response Message (v4.0)
 - *Re-use General Principles*
 - BRS document
 - *'EU' version*



ACDR response details

- Entity name
- Field name
- Data type
- Cardinality
- Description
- Code lists
- Specific remarks

Related Validation Quality Analysis		0	∞	The validation result document related to this FLUX response.	To be provided only in case at least one BR fails. Only the failed business rules are part of FLUX Response Document. The information on the failed business rules are at the level of data field.
Identification	Identifier	1	1	Business rule identification.	e.g.: BR-L00-0000, where: BR – business rule L00 – level code 0000 – BR number within the level
Level	Code	1	1	The code specifying the validation level of the business rule.	e.g.: L00 <i>listID</i> = FLUX_GP_VALIDATION_LEVEL
Type	Code	1	1	The code specifying the type of error found.	<i>listID</i> = FLUX_GP_VALIDATION_TYPE
Result	Text	1	1	Text explaining the business rule violation.	See <i>Message</i> column in Business Rules document.
Referenced Item	Text	1	1	A reference to the incorrect data in the FLUX ACDR Message.	URL to the web site displaying the validation results.
Description	Text	1	1	The textual description as defined in the Business Rules table.	See <i>Description</i> column in Business Rules document.

ACDR general procedures

- **Aggregation**
 - Per month
 - Flag State vessels' catches
- **Periodicity**
 - Every month
- **Submission deadline**
 - 15th date of the next month
- **Mandatory / optional data fields**
 - depends on specific regional requirements
- **Data correction procedure**
- **Specific code usage**
- **etc.**

ACDR report XML example

```
<rsm:FLUXACDRReport>
  <ram:RegionalAreaCode>04-N.</ram:RegionalAreaCode>
  <ram:RegionalSpeciesCode>ANF</ram:RegionalSpeciesCode>
  <ram:FishingCategoryCode></ram:FishingCategoryCode>
  <ram:FAOFishingGearCode>OTD</ram:FAOFishingGearCode>
  <ram:TypeCode>ACDR-REGIONAL</ram:TypeCode>
    <ram:SpecifiedVesselTransportMeans>
      <ram:ID>LUX000123456789</ram:ID>
      <ram:RegistrationVesselCountry>
        <ram:ID>LUX</ram:ID>
      </ram:RegistrationVesselCountry>
    </ram:SpecifiedVesselTransportMeans>
    <ram:SpecifiedACDRReportedArea>
      <ram:FAOIdentificationCode>87.1.4</ram:FAOIdentificationCode>
      <ram:SovereigntyWaterCode>PER</ram:SovereigntyWaterCode>
      <ram:LandingCountryCode>XEU</ram:LandingCountryCode>
      <ram:CatchStatusCode>LANDED</ram:CatchStatusCode>
      <ram:SpecifiedACDRCatch>
        <ram:FAOSpeciesCode>SPR</ram:FAOSpeciesCode>
        <ram:UnitQuantity>2000</ram:UnitQuantity>
        <ram:WeightMeasure unitCode="TNE">28</ram:WeightMeasure>
        <ram:UsageCode>LAN_SOLD</ram:UsageCode>
      </ram:SpecifiedACDRCatch>
    </ram:SpecifiedACDRReportedArea>
  </rsm:FLUXACDRReport>
```



MARITIME AFFAIRS AND FISHERIES

Catch Reporting

Catch Reporting

Home DEH Scoreboard ▾ Catch Scoreboard ▾ Catch Datawarehouse ▾ Administration ▾ Help User ▾ Logout

Welcome To Catch Reporting



- TAC Quotas
- NAFO Quotas
- NEAFC Quotas
- Catches in FPA
- Non Quota Species
- Aggregated Catches
- Individual Catches
- Reports

ACDR viewer

Aggregated Catches

From: 2014 ▾ 1 ▾ To: 2015 ▾ 12 ▾ Report Type: ACDR-VESSEL ▾ Reporting Country: All ▾

Quota Area: All ▾ FAO Area: All ▾ Sovereignty Water: All ▾ Landing Pl. : All ▾

Quota Species: All ▾ FAO Species: All ▾ Fishing Category: All ▾

20 ▾ Records 1 - 11 from 11 << < 1 > >>

Country	Year	Pd	M/Q	Regional		FAO		SW	Landing Indicator	Land Place	Vessel ID	Fishing Category	Gear	Quantity	Unit
				Sp	Area	Sp	Area								
DEU	2014	1	M	CJM	SPRFMO	CJM	87.3.3	XIN		DEU	NLD198100312			1.500	T
DEU	2014	1	M	CJM	SPRFMO	CJM	87.3.3	XIN		DEU	DEU000120500			3.231	T
DEU	2014	1	M	CJM	SPRFMO	CJM	87.3.3	XIN		DEU	NLD199902581			18.500	T
LTU	2014	3	M	CJM	SPRFMO	CJM	87.3.3	XIN		PAN	NLD198502210			1 635.296	T
LTU	2014	3	M	CJM	SPRFMO	CJM	87.2.6	XIN		PAN	NLD198502210			144.560	T

For Your Info

- **Full ACDR I.D. and XSDs**

- <https://circabc.europa.eu> folder

- *EUROPA > European Commission > CIRCABC > MARE > IFDM DEL > Library > Business Layer > FLUX-P1000 > P1000-12_ Aggregated Catch Data Report domain > EU > v4.0*

- **Master Data Register**

- Code lists

- <https://ec.europa.eu/fisheries/cfp/control/codes/>

Thank you...

... for your interest!

**Join the UN/CEFACT FLUX
success story...**



Questions?

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