1. State of play
FLUX Business sub-domains

P1000 - 1; General principles
P1000 - 2; Vessel domain
P1000 - 3; Fishing Activity (FA) domain
P1000 - 5; Sale domain
P1000 - 7; VMS domain
P1000 - 8; Inspection Report domain
P1000 - 9; Fishing Licence; Authorisation & Permit (FLAP) domain
P1000 - 10; Master Data Mngt. (MDM) domain
P1000 - 11; System domain
P1000 - 12; Aggregated Catch Data Report (ACDR) domain
FLUX Business sub-domains

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FLUX sub-domains in a Nutshell: Additional domains

• **General Principles:**
  – introduction & definition of general behavior.
  – basis for all other FLUX sub-domains.

• **Master Data Management (MDM):**
  – For retrieving list of codes (e.g. Species codes) used in FLUX sub-domains from a registry (MDR).

• **System, Geodata Register, Archive, Processes:**
  – Transmission of information about system status, geographical data (similar to MDM), Archived data and Business Processes (Business Rules).
FLUX sub-domains in a Nutshell: Support & Administrative domains

• **Aggregated Catch Data Report (ACDR):**
  – Transmission of catch data aggregated at upper level (per month, area, etc.).

• **Fishing Licence; Authorization & Permit (FLAP):**
  – Transmission of request for fishing license, authorizations or permit between authorities.

• **Vessel:**
  – Transmission of fishing/non-fishing vessels characteristics data (e.g. EU vessel register, FAO vessel global record).

• **Inspection Report (IR):**
  – Transmission of report related to inspection (e.g. Fishing Vessel, Port, Auction Centre).
FLUX sub-domains in a Nutshell
Fishing related domains

• **Fishing Activity (FA):**
  - Transmission of data recorded on board of fishing vessel (aka eLogbook) during fishing trip (from departure to return to port).
  - Information about the quantity of fish landed (Landing).

• **Sales:**
  - Transmission of information since the landing (included in FA) up to the first sale (e.g. in auction centre).
  - Includes Take-Over and Transport (up to first sale) information.

• **Vessel Position:**
  - Transmission of Vessel Monitoring System (VMS) data.
UN/CEFACT Standardization state of play

1. UN/CEFACT Standard – CCL 13B
   - P1000 - 1; General principles
   - P1000 - 7; Vessel Position domain
   - P1000 - 12; Aggregated Catch Data Report domain

2. UN/CEFACT Standard – CCL 14A
   - P1000 - 10; Master data register domain

3. UN/CEFACT Standard - CCL 14B
   - P1000 - 2; Vessel domain
**FLUX Standard - state of play**

4. **CCL 15A**
   - P1000 - 1; General principles (v2)
   - P1000 - 2; Vessel (v2)
   - P1000 - 7; Vessel Position domain (v2)
   - P1000 - 12; Aggregated Catch Data Report domain (v2)

5. **CCL 15B (IN PROGRESS)**
   - P1000 - 3; Fishing Activity domain
   - P1000 - 2; Vessel (v3)
   - P1000 - 9; Fishing Licence; Authorisation & Permit (FLAP) domain
   - P1000 - 5; Sales domain

03/11/2015
FLUX Standard – next steps

Submission to harmonization
- September 2015

BRS presentation in UN/CEFACT forum
- October 2015

Harmonization & XSD
- December 2015

FLUX v1 Publication
- April 2016
FLUX Standard - v1 package

- P1000 - 1; General principles - v2
- P1000 - 2; Vessel - v2
- P1000 - 7; Vessel Position domain - v2
- P1000 - 12; Aggregated Catch Data Report domain - v2
- P1000 - 3; Fishing Activity domain - v1
- P1000 - 2; Vessel - v3
- P1000 - 9; Fishing Licence; Authorisation & Permit (FLAP) - v1
- P1000 - 5; Sales domain - v1
2. Fishing Activity (FA)
Fishing Activity domain objectives

• Transmit between Fisheries Monitoring Centers (FMCs) reports of fishing vessel activities (eLogbook)
  – From the vessel departure to return to port
  – Includes Landing & Transshipment
  – Vessel reports to FMC.
  – FMC transmits reported (enriched) information to others.

• Two ways transmission
  – Reporting & Query/Response messages.
FLUX Reporting Workflow

Transmission @event
Transmission daily

Performing Fishing Activities => events

FLUX System

Flag State FLUX system

Coastal State FLUX system

FLUX Network (Transport Layer)

HTTPS
SOAP

FLUX FA (XML)

Vessel

RFMO
FLUX Reporting Workflows

- **2 ways of exchanging data**
  - **Reporting** of Fishing Activity messages by the flag state
    - *Notifications*
    - *Logbook data*
    - *Landing & Transhipment declarations*
  - **Querying** for of Fishing Activity by the Coastal State or RFMO
    - *Only for logbook data*
3. Standard Usage
FLUX domains deployment

- **Basics**
  - Vessel
  - FLAP
  - MDM

- **Reporting & Monitoring**
  - Fishing Activity (FA)
  - Sales
  - Vessel Position

- **Control**
  - ACDR
  - Inspection Report (IR)
Basic FLUX domains

• **Vessel**
  – Official register of fleet (fishing & support vessels)
  – Characteristics of vessel

• **Fishing Licence; Authorization & Permit (FLAP)**
  – Management of licences for vessels.
  – Essential for FAO Global Record.

• **MDM**
  – Code list repository (MDR)
  – Essential for messages validation
FLUX reporting & monitoring domains

• **Fishing Activity (FA)**
  – Starting point of fisheries business
  – Use for control purpose
  – Related to vessel definition

• **Sales**
  – Start at fish landing
  – Covers take-over of landed fish

• **Vessel Position**
  – Monitoring of vessel activities
  – Essential for control

• **ACDR**
  – Accounting of vessel activities
  – Tools for fisheries management sustainability
FLUX Control domains

• **ACDR**
  - Tools for fisheries management sustainability (Catch <> Quotas)
  - Control of legal obligations
  - Accounting of vessel activities
  - Declaration cross-check

• **Inspection Reports (IR)**
  - Physical Control of vessel activities & characteristics
  - Support for policies (infringements).
4. Next (FLUX v2)
FLUX Business sub-domains

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FLUX project maintenance

• **Fishing Activity (FA)**
  – Response message enhancement

• **General Principles**
  – Generic Query

• **Vessel**
  – Characteristics definition (restrictive)