UC-SSF-0303: Entry into effort zone or 3rd party waters

> ⓘ **Warning**
>
> This use case is currently in the planning phase, please be aware that there may be changes to the use cases. Adjustments or revisions may occur.

1. Use Case Description

This use case describes the process where a small-scale fisher logs their vessel's entry into a regulated fishing effort regime zone or 3rd party waters using the Small Scale Fisheries Application. This process ensures that fishers comply with regulatory restrictions in different zones and provides authorities with real-time tracking of vessel activities.

1.1. Goal

This detailed use case covers the steps involved in logging a vessel's entry and exit into regulated fishing zones or 3rd party waters in the Small Scale Fisheries Application, including handling scenarios where users encounter issues or decide to cancel the process.

1.2. Pre-conditions

1. The vessel has departed from the port.
2. Trip ID has been generated.
3. The vessel is actively on a fishing trip and is approaching a regulated zone or 3rd party waters.
4. Fisher need to do departure declaration before "Entry into the effort zone or 3rd party waters".

1.3. Post-conditions

1. The entry into a regulated fishing zone or 3rd party waters is successfully submitted and recorded in the system.
2. The application updates the vessel's trip record with the zone entry/exit data.
3. Relevant authorities are notified of the entry for monitoring.

1.4. Trigger Event(s)

1.4.1. Primary Actor:

1. Fisher

1.4.2. Secondary Actor(s):

1. Application

2. Use Case Details
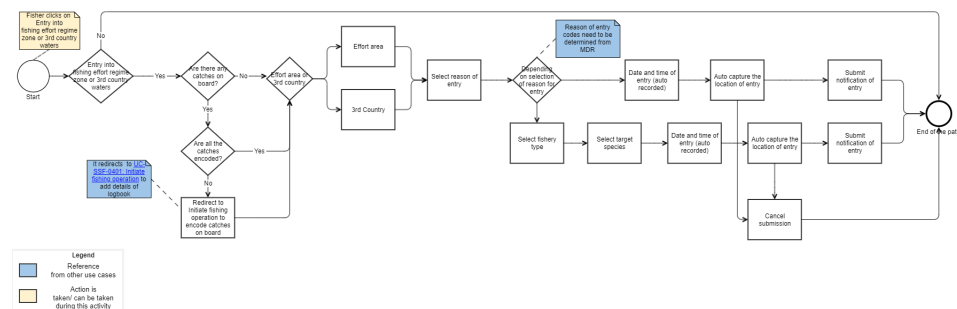
> ⓘ **In the activity diagram below:**
>
> References form other use cases are marked in "BLUE"
>
> Action is taken or can be taken during this activity are marked in "YELLOW"

2.1 Activity Diagram

2.2. Primary Path

Step ID	Actor	Action	Notes and References
PF-1	Fisher	The flow is triggered by clicking on "Entry into fishing effort regime zone or 3rd country waters".	
PF-2	Application	Application opens "Entry into fishing effort regime zone or 3rd country waters" UI.	
PF-3	Application	Application asks if entry into fishing effort regime zone or 3rd country waters.	**AF-1: Entry into fishing effort regime zone or 3rd country waters**
PF-4	Fisher	Fisher wants to enter in effort regime zone or 3rd country waters and selects yes.	
PF-5	Application	Application asks are there any catches on board.	**AF-2: Are there any catches on board.**
PF-6	Fisher	Fisher doesn't have any catches on board and selects no.	
PF-7	Application	Application asks fisher to select either: a.) Effort area b.) 3rd country	**AF-3: 3rd Country**
PF-8	Fisher	Fisher wants to enter effort area and selects a.) Effort area.	
PF-9	Application	Application asks to select the reason of entry.	
PF-10	Fisher	Fisher selects the reason of entry.	
PF-11	Application	Depending upon the selection for reason of entry by the fisher application displays one route out of two different routes: a.) If selection includes other reason of entry instead of fishing activity in the Effort area or 3rd country. b.) If selection includes fishing activity conducted in the Effort area or 3rd country.	**AF-4: Depending upon the selection for reason of entry** **Reason of entry codes need to be determined from MDR**
PF-12	Fisher	As fisher selects option a.) that is, If selection includes other reason of entry instead of fishing activity in the Effort area or 3rd country.	
PF-13	Application	Then application auto display current date and time of entry.	
PF-14	Application	Application auto captures the location of entry.	
PF-15	Application	Application provides the provision to cancel the submission.	**EF-1: Cancel submission**
PF-16	Fisher	Fisher clicks on "submit" to submit the notification of entry.	
PF-17	Application	Application auto display current date and time of exit. This date and time of exit is attached with the notification.	
PF-18	Fisher	Fisher clicks on "submit notification of exit" to submit notification. This ends the primary path.	

2.3. Alternative Path(s)

2.3.1 AF-1: Entry into fishing effort regime zone or 3rd country waters

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-3 of the primary path.	
AF-A3	Application	Application asks if entry into fishing effort regime zone or 3rd country waters.	
AF-A4	Fisher	Fisher do not want to enter and selects no to proceed, this ends the alternate flow.	

2.3.2 AF-2: Are there any catches on board

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-5 of the primary path.	
AF-A2	Fisher	This alternative flow is executed if fisher selects yes.	
AF-A3	Application	Application asks are all the catches encoded before entering into the effort area or 3rd country.	**AF-5: Are all the catches encoded**
AF-A4	Fisher	Fisher has encoded the previous catches and selects yes.	

	AF-A5	Application	Then application returns to PF-7 of primary path and all the steps are followed and path ends.	**PF-7 of primary path**

2.3.3 AF-3: 3rd Country

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-7 of primary path.	
AF-A2	Application	Application asks fisher to select either: a.) Effort area b.) 3rd country	
AF-A3	Fisher	This alternative path is executed if fisher wants to enter 3rd country and selects b.) 3rd country	
AF-A4	Application	Then application returns to PF-9 of primary path and all the steps are followed and flow ends.	**PF-9 of primary path**

2.3.4 AF-4: Depending upon the selection for reason of entry

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-11 of primary path	
AF-A2	Fisher	This alternative path is executed if fisher selects option b.) If selection includes fishing activity conducted in the Effort area or 3rd country.	
AF-A3	Application	Application asks fisher to select fishery type.	
AF-A4	Fisher	Fisher selects the fishery type.	
AF-A5	Application	Applications asks to select target species.	
AF-A6	Fisher	Fisher selects the target species.	
AF-A7	Application	Application auto display current date and time of entry.	**EF-1: Cancel Submission**
AF-A8	Application	Application provides the provision the cancel submission	
AF-A9	Fisher	Fisher clicks on "submit" to submit the notification of entry. This ends the alternate path.	

2.3.5 AF-5: Are all the catches encoded

Step ID	Actor	Action	Notes and References
EF-A1	Fisher	The entry point is AF-A3 of the alternate path AF-2.	
EF-A2	Fisher	This exception path is executed if fisher has not encoded all the catches and selects no.	
EF-A3	Application	Application redirects to Initiate fishing operation UI and ask fisher to add the details of fishing activity done prior to the entry in effort area or 3rd country.	**Redirects to UC-SSF-0401: Initiate fishing operation to enter details of fishing activity.**
EF-A4	Fisher	Fisher enters all the details of fishing activity.	
EF-A5	Application	Application redirect back to the "Entry into fishing effort regime zone or 3rd country waters" UI once all the fishing activity details are filled by the fisher.	**App redirects back to "Entry into fishing effort regime zone or 3rd country waters" UI.**
EF-A6	Application	Then application returns to AF-A5 of AF-1 alternate path and all the steps are followed. This ends the alternate path.	**AF-A5 of alternate path AF-1**

2.4. Exception Path(s)

2.4.2 EF-1: Cancel submission

Step ID	Actor	Action	Notes and References
EF-A1	Fisher	The entry point is PF-15 of primary path and AF-A7 of the alternate path AF-4.	
EF-A2	Fisher	This exception path is executed if fisher wants to cancel submission.	
EF-A3	Fisher	Fisher clicks on "Cancel submission" to cancel.	
EF-A4	Application	Application cancels the submission. This ends the exception path.	

3. **Use Case Realisation**

3.1 Data attributes

> ⓘ **Warning**
>
> As we see some changes in the use cases, same will be reflected in the data attributes. It is still in planning phase and are subjected to change.

3.1.1 Entry into the area

Entity/Field Name	Data Type	Description	Attributes	Remarks
Type	Code	A code describing the type of Fishing_ Activity	*listID*=FLUX_FA_TYPE value= AREA_ENTRY	
Occurence	Date Time	UTC		
Reason	Code	The code specifying a reason for this fishing activity	*listID*=FA_REASON_ENTRY	Use value=TRZ when performing transzonal fishing operations within 5 nautical miles from either side of the effort zone border line. Use value=CRO when not performing fishing operations in the effort zone. Optional if the reason for entry in effort zone is fishing, except trans-zonal fishing.
Fishery_ Type	Code	The code specifying a type of fishery for this fishing activity, such as pelagic fisheries	Optional. *listID*=FA_FISHERY	
Species_ Target	Code	The code specifying a species targeted for this fishing activity	*listID*=TARGET_SPECIES_GROUP	
SpecifiedFishing_ Trip		The reference to the trip in which this activity took place.	*SchemeID*= EU_TRIP_ID *ListID*= FISHING_TRIP_TYPE	The format is described in MDR code list FA_TRIP_ID_TYPE
RelatedFLUX_ Location		A FLUX_ Location related to this fishing activity	ListID=FLUX_LOCATION_TYPE The identifier of a country schemeID =TERRITORY listID=FLUX_LOCATION_CHARACTERISTIC **Area:** schemeID=FAO_AREA schemeID=STAT_RECTANGLE schemeID=EFFORT_ZONE schemeID=MANAGEMENT_AREA **Port:** schemeID=LOCATION schemeID=FARM **RFMO:** listID=RFMO	At least one occurrence of Type=POSITION to report the exact geographical coordinate of the entry position. At least one occurrence of Type=AREA to report the (effort) zone entered. Areas must be provided at the most detailed level available.

| SpecifiedFA_Catch | Assoc. | The catch on board the vessel at the time of entry | Use **FA_Catch entity**

(Which includes following attributes)

listID=FA_CATCH_TYPE (Eg: retained on board)

listID=FAO_SPECIES

Number_of _Individuals

FLUX_UNIT = KGM

listID=WEIGHT_MEANS (Mandatory if SpeciesCode = BFT)

Specified FLUX_ Location i.e. FLUX_Location

DestinationFLUX_Location

For **SpecifiedSize_distribution** ListID= FISH_SIZE_CLASS

ListID= FA_BFT_SIZE_CATEGORY

Related fishing_trip (to be used if the catches are on-board,)

SchemeID= EU_TRIP_ID (Unique identifier for the trip)

FA_TRIP_ID_TYPE

UsedFishing_ Gear (defined in next column)

AppliedAAP_Process

ApplicableFLUX_Characteristic FA_CHARACTERISTIC "DISCARD_REASON | Mandatory in case catches on board at the time of entry.

Use MZZ to report nil-catches ONBOARD at the time of entry (declaration) or at the time of reporting (notification) |

SpecifiedFishing_ Trip

Entity/Field Name	DataType	Description	Attributes	Remarks
Identification	Identifier	The unique identifier of the fishing trip	*SchemeID*= EU_TRIP_ID	The format is described in MDR code list FA_TRIP_ID_TYPE The *schemeID* of the identifier must always be provided.
Type	Code	The code specifying the type of trip for this activity	*ListID*= FISHING_TRIP_TYPE	*e.g. Use value=JFO for trips with BFT joint fishing operations*
Specified Delimited_Period		The delimited period within which this trip occurs.		Mandatory in case of a prior notification or arrival:

3.2 Data Model

3.3 Pseudocode

3.4 User Interface

4. Impact and Risks

4.1. Impact

4.2. Risks

5. Test Cases