

UC-SSF-0401: Initiate/Retrieve fishing operation

Warning

As we are currently in the planning phase, please be aware that there may be changes to the use cases. Adjustments or revisions may occur as the project progresses.

1. Use Case Description

The initiate fishing operation use case ensures that fishers to efficiently **start the fishing activity** using a mobile application. The primary flow provides a structured process for initiating operations for logging catch data.

1.1. Goal

This detailed approach ensures that fishers can reliably manage and report their fishing operation/s. It involves the process by which a fisher uses a mobile application to report their fishing operation.

1.2. Pre-conditions

1. Successfully logged-in into the application.
2. The **gear details** are successfully **logged**.
3. **Recording of vessel positions is under progress** in the fisher's mobile.
4. Pending fishing operation can be accessed by prefilled information saved in draft (like Operation date and time and location).

1.3. Post-conditions

1. Fisher has added the date and time of the fishing operation.
2. Fisher has chosen the gear and added the **location of fishing activity** to be taken place.
3. The **fishing operation** is **initiated** and kept pending if required.
4. Pending fishing operation completed by providing gear retrieval date, time, and fishing depth that ends the fishing operation.
5. Fishing operation ended successfully.

1.4. Trigger Event(s)

1.5. Primary Actor:

1. Fisher

1.6. Secondary Actor(s):

1. Application

2. Use Case Details

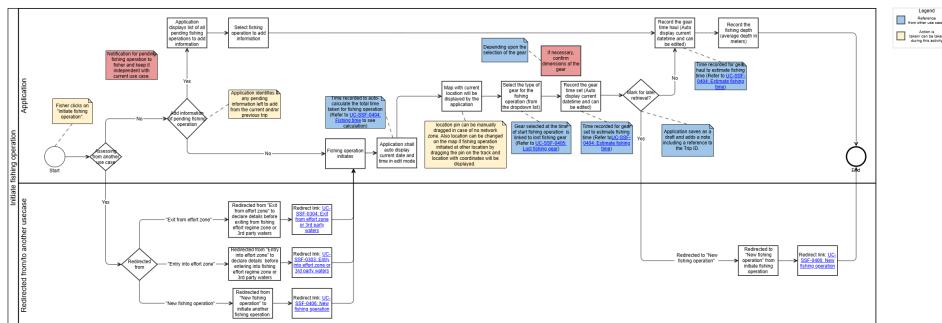


In the activity diagram below:

References from 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 Flow

Step ID	Actor	Action	Notes and References
P-F-1	Fisher	The flow is triggered, when fisher clicks on "Initiate/retrieve fishing operation" from the main menu.	
P-F-2	Application	Checks if fisher is accessing this page from another use case.	AF-1: Redirected from "Entry into fishing effort regime zone or 3rd party waters" or from "Exit from fishing effort regime zone or 3rd party waters" or from "New fishing operation"
P-F-3	Application	If no, then application initiates a new Fishing Operation .	
P-F-4	Application	Identifies if any pending information left to be added for non reported fishing operations.	AF-2: Add information of pending fishing operations
P-F-5	Application	If no, then application initiates new fishing operations	
P-F-6	Application	Auto-displays current date and time on the screen. It also records the date and time of starting of fishing operation to calculate fishing time.	Time recorded to auto-calculates the total time taken for fishing operation (Refer to UC-SSF-0404: Fishing time)
P-F-7	Fisher	In case fishing operation is already started, fisher edits date and time to log details .	
P-F-8	Application	Detects the current location of the fisher and displays it on the map.	
P-F-9	Fisher	Changes the location on the map in case of no-network zone , fisher may drag the pin to the fishing location. Also fisher can change location on the map if fishing operation initiated at other location by dragging the pin on the track and location with coordinates will be displayed on the screen.	Device has recorded the track and co-ordinates at 'X' frequency, fisher can drag the pin on the track and location with coordinates will be displayed on the screen.
P-F-10	Application	Asks fisher to select the gear for the fishing operation (from the dropdown list), which is previously registered.	Gear selected at the time of start fishing operation is linked to lost fishing gear (Refer to UC-SSF-0402: Catches caught and kept on board & discards) Gear selected in the pending fishing operation will not be available for new fishing operation.
P-F-11	Fisher	Selects the gear from the dropdown list.	
P-F-12	Application	Asks fisher to record the gear time set . Application displays the current time and date in auto. Time recorded for gear time set is used to estimate total fishing time.	Refer to UC-SSF-0404: Fishing time
P-F-13	Application	Asks fisher to mark for later retrieval?	AF-3: Mark for later retrieval?
P-F-14	Application	If no, application asks fisher to record the gear time haul . Application displays the current time and date in auto. Time recorded for gear time haul is used to estimate total fishing time.	Refer to UC-SSF-0404: Fishing time
P-F-15	Application	Asks fisher to record the fishing depth (Average depth in meters).	
P-F-16	Fisher	Fisher adds the fishing depth. This ends the primary flow.	

2.3. Alternate Flow

2.3.1 AF-1: Redirected from "Entry into fishing effort regime zone or 3rd party waters" or from "Exit from fishing effort regime zone or 3rd party waters" or from "New fishing operation"

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-2 of primary path	Redirects from UC-SSF-0303: Entry into effort zone or 3rd party waters or Redirects from UC-SSF-0304: Exit from effort zone or 3rd party waters or Redirects from UC-SSF-0406: New fishing operation

AF - A2	Application	Initiates a new Fishing Operation.	
AF - A3	Application	Application returns to PF-4 of primary path, then all the steps are followed. This ends the alternate flow.	PF-4 of primary flow

2.3.2 AF-2: Add information of pending fishing operations

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-4 of primary path	
AF-A2	Application	If yes, then application displays list of pending fishing operations to add information.	
AF-A3	Fisher	Selects fishing operation from the list to add information.	
AF-A4	Application	Application returns to PF-14 of primary path, then all the steps are followed. This ends the alternate path.	PF-14 of primary path

2.4.3 AF-3: Mark for later retrieval?

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-13 of primary path	
AF-A2	Fisher	Wants to retrieve the gear later and press yes.	
AF-A3	Application	Redirects to the New fishing operation use case to perform the activity.	
AF-A4	Application	Redirects back to the "Initiate fishing operation" UI and returns to PF-2 of primary path, then all the steps are followed. This ends the alternate path.	PF-2 of primary path

2.4. Exception Path(s)

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.

Entity/Field Name	Data Type	Description	Attributes	Remarks
Type	Code	A code describing the type of Fishing_ Activity	<i>listID=FLUX_FA_TYPE</i> value=FISHING_OPERATION	
Occurrence	Date Time	UTC Start date and time of the operation		
Vessel Related Activity	Code	The code specifying the main activity of the vessel in the reported period	<i>listID=VESSEL_ACTIVITY</i>	
Operations	Quantity	The number of operations for this fishing activity.		
Fishery_ Type	Code	The code specifying a type of fishery for this fishing activity, such as pelagic fisheries	<i>listID=FA_FISHERY</i>	Optional.
Species_ Target	Code	The code specifying a species targeted for this fishing activity.	<i>listID=FAO_SPECIES</i> Species code, as defined in FAO, for reported catch.	Optional
Identification	Identifier	An identifier for this fishing activity.		Optional
SpecifiedFishing _ Trip	Assoc.	The reference to the trip in which this activity took place. The code specifying the type of trip for this activity	SchemeID= EU_TRIP_ID (Unique identifier) ListID= FISHING_TRIP_TYPE	The format is described in MDR code list FA_TRIP_ID_TYPE

RelatedFLUX_Location	Ass oc.	A FLUX_ Location related to this fishing activity	<p>ListID=FLUX_LOCATION_TYPE The identifier of a country schemeID=TERRITORY</p> <p>listID=FLUX_LOCATION_CHARACTERISTIC</p> <p>Area:</p> <p>schemeID=FAO_AREA</p> <p>schemeID=STAT_RECTANGLE</p> <p>schemeID=EFFORT_ZONE</p> <p>schemeID=MANAGEMENT_AREA</p> <p>Port:</p> <p>schemeID=LOCATION</p> <p>schemeID=FARM</p> <p>RFMO:</p> <p>listID=RFMO</p>	<p>Use Type= POSITION to report catches or activities at a certain geographical location (fisheries under ICCAT or GFCM rules).</p> <p>Use Type= AREA (to report catches per relevant geographical area)</p>
SpecifiedFA_Catch	Ass oc.	The catch caught and kept on board the vessel and the discards, if part of the fishing operation	<p>Use FA_Catch entity in case catches were taken (Which includes following attributes)</p> <p>listID=FA_CATCH_TYPE (Eg: retained on board)</p> <p>listID=FAO_SPECIES</p> <p>Number_of _Individuals</p> <p>FLUX_UNIT = KGM</p> <p>listID=WEIGHT_MEANS (Mandatory if SpeciesCode = BFT)</p> <p>Specified FLUX_ Location i.e. FLUX_Location</p> <p>DestinationFLUX_Location</p> <p>For SpecifiedSize_distribution ListID= FISH_SIZE_CLASS</p> <p><i>ListID= FA_BFT_SIZE_CATEGORY</i></p> <p>Related fishing_trip (to be used if the catches are on-board,)</p> <p>SchemeID= EU_TRIP_ID (Unique identifier for the trip)</p> <p>FA_TRIP_ID_TYPE</p> <p>UsedFishing_ Gear (defined in next column)</p> <p>AppliedAAP_Process</p> <p>ApplicableFLUX_Characteristic FA_CHARACTERISTIC "DISCARD_REASON</p>	<p>Use type=ONBOARD for catches kept onboard.</p> <p>Use type=KEPT_IN_NET for catches kept in the nets</p>
RelatedVessel_Transport Means	Ass oc.	The (other) vessel involved in this fishing operation		<p>Use in case of fishing operations with more than one vessel involved (eg. pair fishing).</p> <p>Specify the role of the related vessel</p>
RelatedFishing_Activity	Ass oc.	A fishing activity related to this fishing activity.		<p>For defining sub-activities, such as gear set, gear retrieved within one fishing operation.</p> <p>For static gear (gillnets and entangling nets) use a sub-activity for setting or re-setting and retrieving the gear (one per fleet).</p>
SpecifiedFishing_Gear	Ass oc.	A fishing gear specified for this fishing activity.	<p>listID= GEAR_TYPE</p> <p>listID=FA_GEAR_ROLE</p> <p>UsedFishing_ Gear</p> <p>value=DEPLOYED;</p> <p>Type=FISHING_OPERATION</p> <p>value=ONBOARD when the FishingActivity Type=DEPARTURE, ARRIVAL</p>	<p>Mandatory in case of gear deployment if</p> <ul style="list-style-type: none"> - No sub-activity is declared - The sub-activity has no gear (deployment) details specified for the operation <p>See data elements and attributes in Table 39.</p>

SpecifiedGear_Problem	Ass. oc.	A gear problem specified for this fishing activity.	ListID=FA_GEAR_PROBLEM Number of gears affected Measure: <i>ListID=FA_GEAR_RECOVERY</i> FLUX_Location	Mandatory in case a gear problem occurred.
Specified_Delimited_Period	Ass. oc.	A delimited period specified for this fishing activity.	Start DateTime End DateTime FLUX_UNIT	Use to specify the total fishing time for this fishing activity.

3.2. Data Model

3.3. Pseudocode

3.4. User Interface

4. Impact and Risks

4.1. Impact

4.2. Risks

5. Test Cases