

# UC-SSF-0501: Transhipment Authorization Request

## 1. Use Case Description

This use case describes the process where a small-scale fisher logs a transhipment activity using the Small Scale Fisheries Application. Transhipment refers to the transfer of catch from one vessel to another at sea or in port. This process is crucial for tracking and monitoring catches, ensuring regulatory compliance, and preventing illegal, unreported, and unregulated (IUU) fishing.

### 1.1. Goal

This detailed use case provides a structured approach to logging transhipment activities in the Small Scale Fisheries Application, notifying authorities for transferring catch in true path and ensuring compliance, accuracy, and transparency for both the origin and receiving vessels.

### 1.2. Pre-conditions

1. The vessel has a valid and active trip record in the system.
2. Both vessels involved (origin and receiving vessels) are registered in the system.
3. The vessel is either at sea or in a designated port location approved for transhipment.

### 1.3. Post-conditions

1. The transhipment event is successfully recorded in the system with details of the catch transferred.
2. Relevant authorities receive notifications and updates about the transhipment for compliance tracking.
3. A confirmation or receipt of transhipment is sent to both vessels involved.

### 1.4. Trigger Event(s)

#### 1.4.1. Primary Actor:

1. Fisher

#### 1.4.2. Secondary Actor(s):

1. Application

## 2. Use Case Details

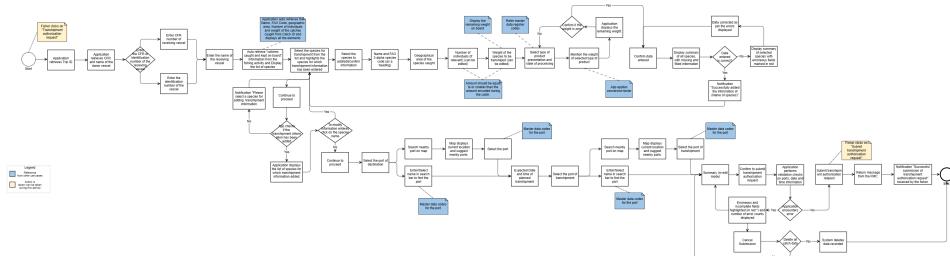


In the activity diagram below:

References 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 Path

Step	Actor	Action	Notes and References
PF-1	Fisher	The flow is triggered when fisher clicks on transhipment.	
PF-2	Application	Retrieves the Trip ID for the transhipment from current fishing operation.	

PF-3	Application	Retrieves the CFR number and name of the donor vessel.	
PF-4	Application	Application asks fisher to enter the CFR or identification number of the receiving vessel.	
PF-5	Fisher	Enters the CFR or identification number of the receiving vessel.	
PF-6	Application	Enter name of the receiving vessel.	
PF-7	Fisher	Enters the name of the receiving vessel.	
PF-8	Application	Automatically retrieves data about species caught, FAO code, geographic area, quantity, and weight of catches, and displays list of all relevant information.	Data sourced from Catch ID and prior fishing activity records of the current trip.
PF-9	Fisher	Selects the specific species for transhipment from the list.	
PF-10	Application	Application highlights the species for which transhipment information has been entered.	
PF-11	Application	Application asks to select the species to add/edit/confirm the information of selected species.	
PF-12	Fisher	Selects the species information to add, confirm or edit if needed.	
PF-13	Application	Application displays Name, FAO code and geographic area of the selected species in uneditable mode.	
PF-14	Fisher	Reviews and confirms details like Name, FAO code, geographic area and also edits number of individuals and weight (Number and weight depends upon the amount of transhipment).	Weight of the transhipped species should be equal to or less than the catch amount recorded.
PF-15	Application	Application asks fisher to select the type of product presentation and state of processing.	
PF-16	Fisher	Fisher selects the type of product presentation and state of processing.	
PF-17	Application	Application asks to mention weight of selected type of product.	
PF-18	Fisher	Mentions weight of selected type of product.	
PF-19	Application	Applies a conversion factor, if applicable, to adjust the weight for processing.	
PF-20	Application	Displays the remaining weight on board of the selected species for the fisher's reference.	
PF-21	Application	Application checks if the remaining weight is less than zero kg then it proceeds to the next step.	<b>AF-1: Confirms if the weight is zero.</b>
PF-22	Application	Application asks fisher to <b>confirm data entered</b> .	
PF-23	Fisher	Fisher confirms the data entered.	
PF-24	Application	Application displays summary of all the species, with missing and filled information.	
PF-25	Application	Application checks if the data entered is correct, if yes.	<b>AF-2: All data entered is correct.</b>
PF-26	Application	Displays notification "Successfully added the information of ("Name of the species")."	"Name of the species" need to be auto recovered from the selection of species.
PF-27	Application	Takes back to the PF-09 of primary path, to the selected list of transhipment with added information.	Takes back to PF-09 of primary path
PF-28	Application	Prompts the option of "continue to proceed".	
PF-29	Fisher	Selects the option "Continue to proceed".	
PF-30	Application	Checks if the transhipment information has been added, if yes	<b>AF-3: Transhipment information has been added</b>
PF-31	Application	Displays the list of species for which transhipment information added for the fisher to review.	
PF-32	Application	Asks to modify information entered by clicking on the species name.	<b>AF-4: Modify information of the selected species.</b>
PF-33	Fisher	Selects 'No' to proceed.	
PF-34	Application	Application asks fisher to "select port of destination" either of two options:  1. To enter or select the name of the port of destination from the search bar to find the port.  or  2. Search nearby port.	<b>AF-5: Search nearby port on map for "Selection of destination".</b>  <b>Master Data</b> codes are referenced for port validation.
PF-35	Fisher	Selects option 1 and enters the name in the search bar and selects the port.	
PF-36	Application	Asks <b>expected date and time</b> for planned transhipment and displays calendar to select the date.	
PF-37	Fisher	Fisher selects the date and enters time.	

PF-38	Application	Application asks fisher to "select port of transhipment" either of two options: 1. To enter or select the name of the port of transhipment from the search bar to find the port. or 2. Search nearby port.	<b>AF-6: Search nearby port on map for "Select port of transhipment".</b>  <b>Master Data</b> codes are referenced for port validation.
PF-39	Fisher	Selects option 1 and enters the name in the search bar and selects the port.	
PF-40	Application	Application displays the summary of the information entered (in edit mode).	
PF-41	Fisher	Reviews all entered data and confirms the accuracy.	
PF-42	Application	To maintain integrity of data, application performs <b>validation checks</b> .	<b>AF-7: Application encounter error</b>
PF-43	Application	During checking application does not encounter any error.	
PF-44	Application	Also displays cancel submission button, in case fisher wishes to cancel.	<b>AF-8: Cancel submission</b>
PF-45	Application	Application displays the icon of "submit transhipment report".	
PF-46	Fisher	Submits the transhipment report.	
PF-47	Application	Sends a notification confirming "Successful submission of transhipment request received by the fisher." This ends the primary flow.	

## 2.3. Alternative Path(s)

### 2.3.1 AF-1: Confirms if the weight is zero.

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-21 of the primary flow.	
AF-A2	Application	Application checks and confirms if the weight of the selected species is zero, if no	
AF-A3	Application	Then application returns to PF-15 of primary flow and all the steps of primary path are followed till the remaining weight is zero.	<b>PF-15 of primary flow.</b>

### 2.3.2 AF-2: All data entered is correct.

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-25 of the primary flow.	
AF-A2	Application	Application checks if the data entered is correct, if no.	
AF-A3	Application	The application <b>highlights the incomplete or erroneous fields</b> (in red) and displays an error message with number of error counts.	
AF-A4	Fisher	Fisher corrects the data as per highlighted fields and errors displayed and confirms the data entered.	
AF-A5	Application	Then application returns to PF-22 of primary path and all the steps of primary path are followed and the flow ends.	<b>PF-22 of primary path</b>

### 2.3.3 AF-3: Information of the selected species for transhipment added

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-30 of the primary flow.	
AF-A2	Application	Checks and find out that information of all selected species for transhipment is incomplete.	
AF-A3	Application	Displays notification "Please select a species for adding transhipment information".	
AF-A4	Application	Returns to <b>PF-9</b> of the primary path to add missing information of the selected species and all the steps of primary path are followed. This ends the alternate path.	<b>PF-9 of the primary path.</b>

### 2.3.4 AF-4: Modify information of the selected species.

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-32 of the primary flow.	
AF-A2	Application	Ask fisher to edit information of selected species, in case fisher forgot to add species that are going to tranship.	
AF-A3	Fisher	Selects yes.	
AF-A4	Application	Returns to <b>PF-9</b> of the primary path to edit information or to add species for transhipment and all the steps of primary path are followed. This ends the alternate path.	<b>PF-9 of the primary path</b>

### 2.3.5 AF-5: Search nearby port on map for "Selection of destination".

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-34 of Primary Flow.	

AF-A2	Fisher	The alternate flow is executed if fisher selects option 2. Search nearby port or landing site on map.	
AF-A3	Application	Application displays <b>map with current location and suggest nearby ports</b> .	
AF-A4	Fisher	Fisher <b>selects the port of destination</b> from the map and displays it.	Refer to Master Data codes for the ports.
AF-A5	Application	Then application returns to step PF-36 of primary path, all the steps of primary path are followed and flow ends.	PF-36 of primary path

### 2.3.6 AF-6: Search nearby port on map for "Select port of transhipment".

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-38 of Primary Flow.	
AF-A2	Fisher	The alternate flow is executed if fisher selects option 2. Search nearby port on map.	
AF-A3	Application	Application displays <b>map with current location and suggest nearby ports</b> .	
AF-A4	Fisher	Fisher <b>selects the port of transhipment</b> from the map and displays it.	Refer to Master Data codes for the ports.
AF-A5	Application	Then application returns to step PF-40 of primary path, all the steps of primary path are followed and flow ends.	PF-40 of primary path

### 2.3.7 AF-7: Application encounter error

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-42 of the primary flow.	
AF-A2	Application	To maintain integrity of data, application performs <b>validation checks</b> .	
AF-A3	Application	During checking application encounters error.	
AF-A4	Application	Application <b>highlights the incomplete or erroneous fields</b> (in red) and displays an error message with number of error counts.	
AF-A6	Application	Also displays cancel submission button, in case fisher wishes to cancel.	EF-1: Cancel submission
AF-A7	Application	Then application returns to PF-40 of primary path to display the summary (in edit mode).	PF-40 of primary path
AF-A8	Fisher	Fisher corrects the highlighted fields according to the error displayed and all the steps of primary path are followed and the flow ends.	

### 2.3.8 AF-8: Cancel Submission

Step ID	Actor	Action	Notes and References
AF-A1		The entry point is PF-44 of Primary Flow. The alternate flow is executed if fisher clicks on cancel submission.	
AF-A2	Application	Application asks fisher, if fisher <b>wish to delete all catch data</b>	EF-1: Delete all catch data
AF-A3	Fisher	Fisher does not wishes to delete and selects no.	
AF-A4	Application	Then application returns to step PF-40 of primary path, all the steps of primary path are followed and flow ends.	PF-40 of primary path

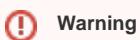
## 2.4. Exception Path(s)

### 2.4.1 EF-1: Delete all catch data

Step ID	Actor	Action	Notes and References
EF-A1		The entry point is AF-A2 of alternate path EF-3.	
EF-A2	Application	Application asks to <b>delete all the catch data</b> .	
EF-A3	Fisher	Fisher wishes to delete all the catch data and clicks on yes.	
EF-A4	Application	Application deletes the data recorded. This ends the exceptional flow.	

## 3. Use Case Realisation

### 3.1. Data Attributes



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.

Column Name	LV Objects/Code List	SSF Objects/Code List	Data Type	Short Description	Notes or Comments
Type	listID=FLUX_FA_TYPE value=TRANSHIPMENT		Code	A code describing the type of Fishing_ Activity	
Identification	Defined	Not defined	Identifier	Optional.  In case an identifier is provided, the schemeID should be provided.	
Specified Delimited_Period	Defined'	Defined	Assoc.	Delimited period defining the start and end date and time of the transhipment	

<b>SpecifiedFishing_Trip</b>	<p>SchemeID= EU_TRIP_ID (Unique identifier)</p> <p>FA_TRIP_ID_TYPE</p> <p>ListID= FISHING_TRIP_TYPE</p>	<p>Defined:</p> <p>TRIP_ID (Unique identifier)</p> <p>FA_TRIP_ID_TYPE (required to differentiate EU Trip ID and NEAFC)</p>	Assoc.	The reference to the trip to which this activity is linked.	
<b>RelatedFLUX_Location</b>	<p>ListID=FLUX_LOCATION_TYPE</p> <p>schemeID=TERRITORY</p> <p>listID=FLUX_LOCATION_CHARACTERISTIC</p> <p><b>Area:</b></p> <p>schemeID=FAO_AREA</p> <p>schemeID=STAT_RECTANGLE</p> <p>schemeID=EFFORT_ZONE</p> <p>schemeID=MANAGEMENT_AREA</p> <p><b>Port:</b></p> <p>schemeID=LOCATION</p> <p>For BFT farms use:</p> <p>schemeID=FARM</p> <p><b>RFMO:</b></p> <p>listID=RFMO</p>	Defined	Assoc.	<p>For transhipments within EU territory, at least the (designated) port or other location where the transhipment takes place.</p> <p>If the location is not on the MDR code list, use the closest relevant MDR location. In such case it is recommended to specify the exact position of the transhipment.</p> <p>Outside EU waters, where other rules on transhipment may apply, at least the position where transhipment takes place must be provided.</p>	
<b>SpecifiedFA_Catch</b>	<p>Use Type=UNLOADED</p> <p>Use Type=LOADED</p> <p>listID=FA_CATCH_TYPE</p> <p>listID=FAO_SPECIES</p> <p>FLUX_UNIT</p> <p>listID=WEIGHT_MEANS (Mandatory if SpeciesCode = BFT)</p> <p>FLUX_Locations</p> <p>ListID= FISH_SIZE_CLASS</p>	<p><b>Use Type=LOADED - Not defined</b></p> <p>ListID= FISH_SIZE_CLASS (defined)</p> <p>listID=FA_CATCH_TYPE (defined)</p> <p>listID=FAO_SPECIES (defined)</p> <p>FLUX_UNIT (defined)</p> <p>listID=WEIGHT_MEANS (Mandatory if SpeciesCode = BFT)</p> <p>FLUX_Locations</p> <p>ListID= FISH_SIZE_CLASS (defined)</p>	Assoc.	<p>The catches transhipped during this operation</p> <p>Use Type=UNLOADED in case of unloading.</p> <p>Use Type=LOADED in case of loading.</p> <p>Specify product weights and quantities.</p>	
<b>RelatedVessel_Transport Means</b>					
<b>Role</b>	<p><i>ListID=FA_VESSEL_ROLE</i></p> <p>Use value PAIR_FISHING_PARTNER</p> <p>Use value CATCHING_VESSEL</p> <p>Use value PARTICIPATING_VESSEL</p> <p>Use value DONOR</p> <p>Use value RECEIVER</p>	<p>Use value DONOR</p> <p>Use value RECEIVER</p>	Assoc.	<p>The (other) vessel involved in this transhipment</p> <p>Use role DONOR in case of a transhipment loading operation.</p> <p>Use role RECEIVER in case of transhipment unloading.</p> <p>The name of the master must be included.</p> <p>Mandatory for the vessels, other than the reporting vessel, participating to the fishing activity.</p> <p><i>ListID=FA_VESSEL_ROLE</i></p> <p>Use value PAIR_FISHING_PARTNER if the vessel is a pair fishing partner in the fishing operation.</p> <p>Use value CATCHING_VESSEL to indicate the catching vessel in a relocation as part of the JFO.</p> <p>Use value PARTICIPATING_VESSEL to indicate the vessel participates to the operation in case of relocation as part of a JFO (eg. catches allocated to quota) Might be applicable for SSF for JFO (BFT)</p> <p>Use value DONOR to indicate the donor vessel in a loading operation or a notification of loading.</p> <p>Use value RECEIVER to indicate the receiving vessel in an unloading operation or notification of unloading</p>	

Identification	FLUX_VESSEL_ID_TYPE  For EU vessels:  <i>schemeID=CFR &amp; Value= CFR number</i>  For non-EU vessels:  <i>schemeID=IRCS &amp; Value= IRCS number and schemeID=EXT_MARK &amp; Value= side (hull) number</i>  <b>For any vessels:</b> (in addition to other identifiers, if available)  <i>schemeID=UVI &amp; Value=IMO number</i>  <b>Under BFT rules:</b> (in addition to other identifiers)  <i>schemeID=ICCAT &amp; Value=ICCAT register number</i>  <b>Under GFCM rules:</b> (in addition to other identifiers)  <i>schemeID=GFCM &amp; Value=GFCM register number</i>	<b>Defined</b>  For EU vessels, For non-EU vessels, For any vessels:  <i>schemeID=CFR &amp; Value= CFR number</i>  <b>Not Defined</b>  <b>Under BFT rules:</b> (in addition to other identifiers)  <i>schemeID=ICCAT &amp; Value=ICCAT register number</i>  <b>Under GFCM rules:</b> (in addition to other identifiers)  <i>schemeID=GFCM &amp; Value=GFCM register number</i>		An identifier for this vessel	
Name	A name, expressed as text, of the vessel	Not Defined	Text	Under BFT rules the name of the tug boat is mandatory.	
Registration_Vessel_Country		Not Defined	Assoc.	Identification of the flag state	
SpecifiedContract_Party		Not Defined	Assoc.	Vessel master reference Mandatory for the reporting vessel and where required as well for the other vessels involved in the operation.	
SpecifiedFLAP_Document	SchemeIDs must be present in the list FLAP_ID_TYPE  <b>For EU vessels under ICCAT rules:</b>  <i>SchemeID= ICCAT_AUTHORIZATION &amp; Value= ICCAT authorization number</i>	Not defined	Assoc.	The Fishing Licence, Authorization or Permit (FLAP) specified for this fishing activity.  The authorisation reference for the transhipment must be provided for transhipment declarations of BFT.	
SpecifiedFLUX_Characteristic		Not defined	Assoc	Characteristic describing the destination location of the receiving vessel	

## 3.2. Data Model

## 3.3. Pseudocode

## 3.4. User Interface

## 4. Impact and Risks

### 4.1. Impact

### 4.2. Risks

## 5. Test Cases