

# UC-SSF-0302: Vessel position data (VMS)

## ⚠️ 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

This fishing vessel position use case **ensures that fishers can efficiently report their vessel positions using the application**, contributing to improved safety, monitoring and resource management in SSF.

### 1.1. Goal

This detailed use case explains the process for submitting a vessel's position using the Small Scale Fisheries Application, covering typical primary as well as alternative scenarios for potential issues.

### 1.2. Pre-conditions

1. Fisher **logs in** into the application.
2. Fisher clicks on "Start fishing trip" to enter the vessel position data use-case.

### 1.3. Post-conditions

1. Vessel positions are successfully submitted.
2. Vessel positions are successfully recorded in the fisher's mobile for the duration of 'X' months.

### 1.4. Trigger Event(s)

#### 1.4.1. Primary Actor:

1. Fisher

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

1. Application

## 2. Use Case Details

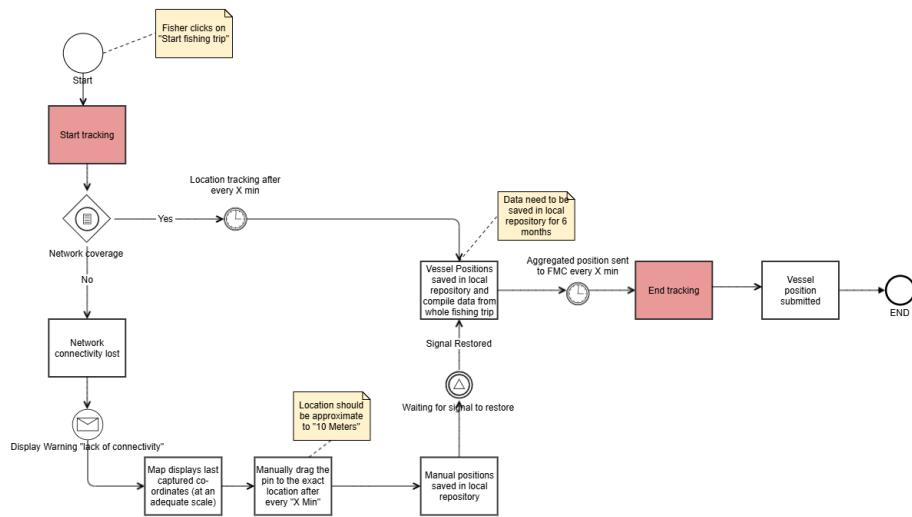


In the activity diagram below:

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 ID	Actor	Action	Notes and References
PF-1	Fisher	The flow is triggered by fisher, when fisher submits the declaration of departure successfully.	
PF-2	Application	Application checks for the <b>network coverage</b> .	
PF-3	Application	If within the range of the network, application starts tracking the location after <b>every 'X' minutes</b> .	
PF-4	Application	<b>Vessel positions are saved in the local repository.</b> Position data entered manually by fisher is also compiled with auto in case of network connectivity issues.	Data need to be saved in the mobile local repository for at least 6 months.
PF-5	Application	Application sends the <b>aggregated positions sent</b> to FMC after <b>every 'X' minutes</b> .	
PF-6	Application	Notification of "vessel positions successfully submitted"	

## 2.3. Alternative Path(s)

AF-1: Not in the network coverage area.

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-2 of the primary flow.	
AF-A2	Application	Application checks for the network coverage and finds <b>network coverage is lost</b> .	
AF-A3	Application	Application displays <b>warning "lack of connectivity"</b> .	
AF-A4	Application	Application displays <b>map with last captured co-ordinates</b> (at an adequate scale).	
AF-A5	Fisher	Fisher manually drags the <b>pin on the map to after every 'X' mins</b> and submits.	Location should be approximate to 10 meters.
AF-A6	Application	Application saves the <b>manually entered vessel positions</b> to the local repository.	
AF-A7	Application	Application wait for the signal to restore. Once the <b>signal is restored</b> .	
AF-A8	Application	Then return to step PF-4 of primary path and all the steps till PF-7 is followed.	<b>PF-4 of primary path</b>

## 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.

Column Name	LV Objects	SSF Objects	Data Type	Short Description	Notes or Comments

### 3.2. Data Model

### 3.3. Pseudocode

### 3.4. User Interface

## 4. Impact and Risks

### 4.1. Impact

### 4.2. Risks

## 5. Test Cases