



BLUEMASSMED OPERATIONAL SCENARIO 6.

ILLEGAL FISHING

Developed by SP (PN-GC).

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1. Introduction.

The purpose of this document is to define the operational scenarios to be used in order to test the operational effectiveness of the Blue Mass Med network.

The operational scenarios provide the background required in order to promote the validation of all BMM System Services and the Information Exchange Requirements (basic and non basic) between the nodes of the network, and therefore, the scenarios describe the tasks and activities, operational elements, and information exchanges required to accomplish the mission.

This document has to be read in conjunction with the latest edition of the BMM Demonstration Plan.

In the following sections a detail description of one operational scenario. All the information provided is fictional and the only purpose is to help to test the network and the services. The basic / non basic information which is intended to be exchanged between BMM partners is fictional, and therefore the issue of whether the information is unclassified / sensitive or classified is not applicable in the context of this document.

This operational scenario promotes the exchange of information based on an existing Shared Basic Common Maritime Picture (SBCMP) and they are designed to use all the services available, both core services and common services. In this regard, the scenario should provide opportunities to create new tracks, to update existing tracks, to assign or modified track numbers, or the deletion of an existing track. They also provide opportunities to exchange track historic data among the authorised nodes, to communicate among the nodes (via internet type e-mail, chats, IP phoning, etc...), to exchange imagery products (static media files, streaming media file, including satellite imagery) or to exchange mapping information.

NOTE

- This operational scenario has been developed with the most current technical information available and it will be adapted to the services and information exchange requirements implemented by each node.
- It is imperative that the individual nodes with active involvement in this scenario check the feasibility to perform the tasks specified. In any case will inform the designated PN responsible person the availability of its node to conduct the operational demonstration.

2. General description of the Scenario.

This BMM Operational Scenario has an initial description in which it is explained in general terms the initial situation and the surrounding circumstances. Starting from the initial situation the scenario is developed with different actions occurring upon which the BMM partners take measures to prevent the dangerous situation from occurring or to mitigate the effects.

Following the description there is a graphical map of the scenario, and a list of injections and the information exchange occurring amongst BMM partners.

The exact format of the information exchange will be established during the trials in accordance with the services developed by each node.

Finally a list of the partners involved in each scenario is shown.

Illegal fishing.

Description

There are two different scenarios. The first one is an IUU case with a fishing vessel in the Spanish EEZ and the other scenario is a European Vessel in West area of the Mediterranean Sea.

East Med Scenario:

Malta coast guard reports the presence in the east Med of a Vietnamese FV that was sanctioned as illegal fishing 5 years ago and informs of her position.

Italian Navy reports that a maritime patrol aircraft is close to the area of the FV Shark. MT Fishing authority request to the IT Navy to take a picture of the FV is possible.

IT fishing authorities confirms that the FV is a probable illegal one. Then the track is lost in AIS and IT fishing auth request a satellite picture. Picture is taken and analyzed and drift nets are missing now onboard.

GR coast reports new contact with the FV by a MPA. GR decides to inspect the FV and sends a patrol boat. Once inside GRTTW, FV Shark is inspected and the report is sent to BMM.

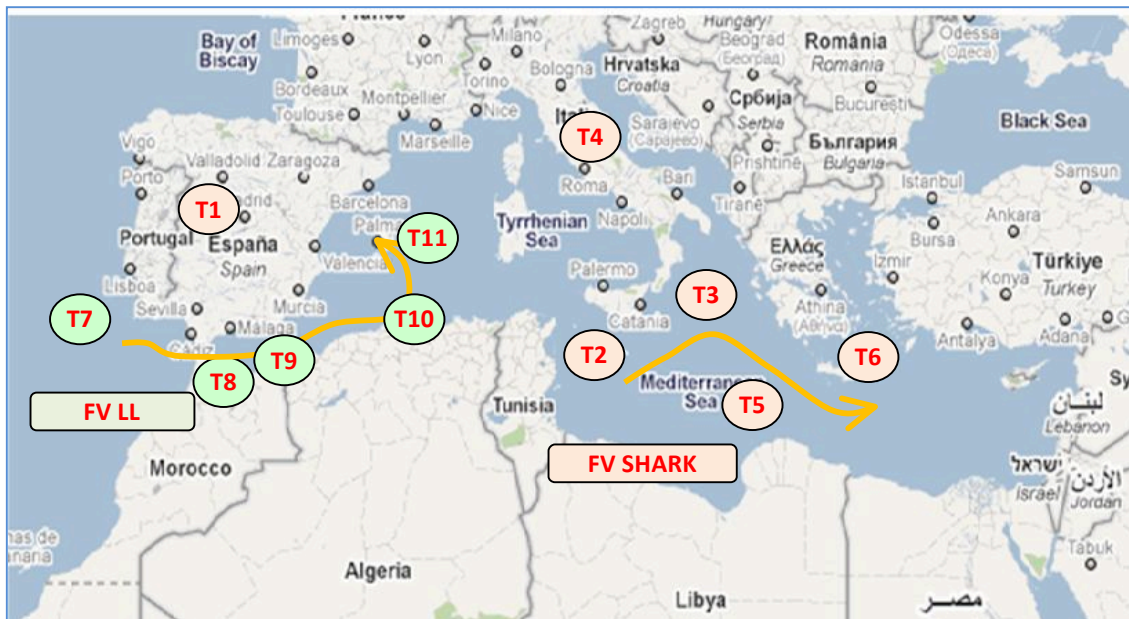
West Med Scenario:

Portuguese authorities warn about a suspicious Long Liner (LL) with Vietnamese flag

just before crossing the Strait of Gibraltar. So, they alert the BMM primary nodes and the Spanish SIVE (Maritime Surveillance System) and the Spanish Navy offers its help taking a photograph and a video of the vessel while passing the strait of Gibraltar. The Spanish Fisheries Administration (SGM) checks that this boat is not present on the list of IUU vessels, but it is also consulted to the CFCA. The CFCA confirms that this vessel is not on the list or either has any warnings related.

A satellite picture is requested as the ship is moving east and lost from any surveillance system. SP (SGM) request wide area mapping services. IT (PN) to provide.

The SGM notices that this Fishing vessel has no authorization to fish in its Waters so they start an operation to catch the vessel and arrest it. First of all, they dump the vessel's name and coordinates into the BMM network by using a Secondary Node (simple web-browser access to the BMM Network on Internet) in order to require any inspection aids close to the area. A SP (DAVA) aircraft checks position of the VIET Long Liner later which is moving to Palma de Mallorca. The French Maritime Prefecture informs that the French navy patrol boat "Jean Charcot" is on the surroundings with a Portuguese and a Spanish inspector carrying out a JDP for the Blue Fin Tuna 20 nm southwards from the vessel location and offers its help. The patrol boat arrests and leads the long liner to the port of Palma de Mallorca. Previously on the BMM network they have exchanged all the information required for the Spanish enforcement authorities (Guardia Civil) in order to adopt all the necessary precautionary measures. An inspection report is sent to SP (PN-GC) and FR (SN-MOC Toulon).

Map.Injections and Information Exchange.

T1: SP (SEGEMAR) provides alert services on two illegal fishing vessels reported by CFCA and request information services. All nodes subscribe.

EASTMED SCENARIO

New track is detected (AIS) in Malta Surveillance System.

T2: MT (Defence) provides AIS information held on FV Shark. MT reports by email to BMM community that the FV was sanctioned for illegal fishing five years ago.

Malta reports the lost of the fishing vessel track in their system.

T3: IT (Navy) reports BMM that maritime patrol aircraft is in the vicinity of the last reported position. MT request to the IT Navy to take a picture of the FV if possible.

T4: IT (PN) provides pictures of FV and update position. Italian fishing authorities declare FV as an IUU vessel.

Track of FV is lost in all systems.

T5: IT (PN) executes wide area mapping service to update position of FV. IT provides satellite picture which once analyzed show that the fishing nets are missing from last picture taken by Italian Navy MPA.

Fishing vessel is sailing eastward. It seems that is proceeding to Aegean sea. Greek

coastguards reports that an aircraft is going to be tasked to track IUU FV. Then, MPA gets contact with FV twenty nautical miles west of Crete. Also a Greek coastguard patrol boat is loitering west of Crete.

T6: GR (Coast Guard) update information on FV.

The IUU FV enters Greek territorial waters and Greek patrol boat proceeds to inspect the FV. Inspection is taken and report is sent to Greek authorities.

WESTMED SCENARIO.

T7: PT (PN) reports that a Vietnamese Long Liner is loitering south PO and moving to the STROG.

T8: SP (SEGEMAR) request to the SP primary nodes to take picture of the FV when passing STROG. SP Navy provides information and also Guardia Civil provides other relevant information through the SIVE system.

T9: SP (SEGEMAR) request wide area mapping services. A satellite picture is requested as the ship is moving east and lost from any surveillance system. IT (PN) to provide.

T10: SP (DAVA) sends surveillance aircraft and relocated the LL, the ship is moving to Palma de Mallorca.

T11: FR Prefect Maritime informs BMM that a Navy Patrol Boat (with two Fishing inspector onboard) is going to carry out inspection. SP(SN-SEGEMAR) required for the Spanish enforcement authorities (Guardia Civil) in order to adopt all the necessary precautionary measures.

The inspection is already carried out an the report is sent to SP, FR and PT authorities.

Expected results.

Partners Involved.

BMM:

France.- Defence, Maritime Affairs.

Greece – Coast Guard.

Italy – Agriculture, Defence.

Malta – Defence.

Portugal - EMAM

Spain – SEGEMAR, DAVA, Navy and Guardia Civil.

Others

EUROPOL, FRONTEX.

<p><u>Comments.</u></p>

3. General Animation Plan.

Ship's Track Information.

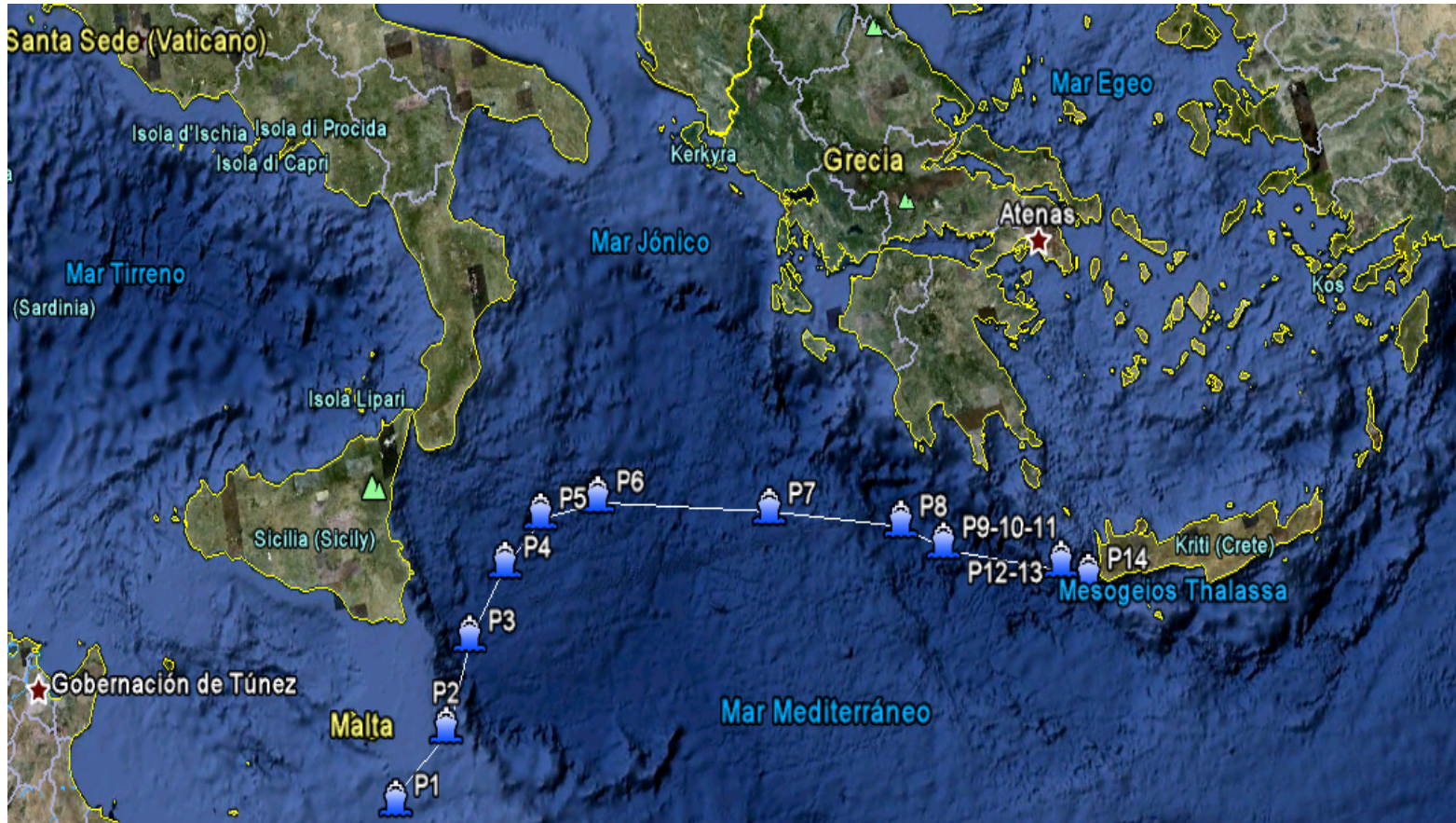
TRACKS					
NAME	FLAG	SPEED	LAST PORT OF CALL	DESTINATION	COMMENTS
FV Shark	VIETNAMESE	12 KNOTS	UNK	UNK	
Long Liner	VIETNAMESE	12 KNOTS	UNK	UNK	

POSITION	P1	P2	P3	P4	P5	P6	P7	P8
TIME	01D08H00	01D11H40	01D15H24	01D18H43	01D20H52	01D21H30	2D6H05	2D12H30
EVENT	FV Shark in Maltese TTW by AIS		Last position of FV Shark in Maltese TTW	Approaching Italian Coastline	IT (Navy) reports a plane in the area. MT request to the IT Navy a picture	IT (PN) provides pictures and update position.	FV is lost in all systems	IT provides satellite picture – Analysis show fishing nets are missing

POSITION	P9	P10	P11	P12	P13	P14	P15(2 event)	P16
TIME	2D14H40	2D16H50	2D18H45	2D20H30	2D20H30	2D21H50	01D07H00	1D12H15
EVENT	FV sailing Eastward seems to proceed to Aegean sea.			GR Plane (Coast Guard) update information on FV	FV seen by a MPA sailing in GR TTW.	GR Patrol Boat proceeds with an inspection and report.	PT (PN) reports that a VIET LL is loitering south PO and moving to the STROG.	

POSITION	P17	P18	P19	P20	P21	P22	P23
TIME	1D20H35	3D9H00	3D21H24	4D11H50	4D22H05	5D7H00	5D11H50
EVENT	SP(PN-GC) and SP(PN-Navy) provides information.	IT(PN) provide information in the restricted area of Alboran.		SP (DAVA) update information the ship is moving to Palma de Mallorca		Last position of the LL by surveillance system.	FR Prefect Maritime informs that a Navy Patrol Boat is going to carry out inspection.

EASTMED SCENARIO



WEST SCENARIO



UNCLASSIFIED

- **General Animation Plan.**

Nº VIGNETTE/ INJECTION	TIME REFERENCE (Date & Time)	KEY EVENT (Description)	SERVICE REQUESTED / PUBLICATION. (Note 1)	INFO EXCHANGE REQUESTED / PUBLICATION. (Note 2)	SOURCE OF INFORMATION. (Asset providing info)	BMM NODES INVOLVED. (Note 3)	SHIPS POSITION
T0	Information to be inserted	Information to be inserted	Information to be inserted	Information to be inserted	Information to be inserted	Information to be inserted	Information to be inserted
T1	1D05H00	SP (SN-SEGEMAR) provides alert services on two illegal fishing vessels reported by CFCA and request information services.	Provide Alerts. Publish S1. Provide Tracks. Publish S1.	Distribute Alerts (DER.23) Exchange Basic Data. (DER.02) Share Tracks.(DER.03)	SP (SN-SEGEMAR)	ALL	UNK
T1	1D06H00	Set Subscription				ALL	UNK
T2	01D08H00 TO 01D11H40	MT (Defense) provides AIS information held on FV Shark. MT reports by email to BMM community that the FV was sanctioned for illegal fishing five years ago.	Provide Alert. Publish S1. Provide Track. Publish S1.	Distribute Alerts (DER.23) Exchange Info by mail (DER.07)	MT (Defense)	MT	P1 - P2
T2	1D15H24	Malta reports the lost of the fishing vessel track in their system.		Exchange Basic Data (DER.02).	MT (Defense)	MT	P3

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T3	1D18H43 TO 1D20H52	IT (Navy) reports BMM that maritime patrol aircraft is in the vicinity of the last reported position. MT request to the IT Navy to take a picture of the FV if possible.	Provide Track. Publish S1. Publish S4. Data Augmentation Service.	Exchange Basic Data.(DER.02) Share Tracks.(DER.03) Exchange Info by mail. (DER.07)	IT (Navy) MT (Defense)	IT and MT	P4 –P5
T4	1D21H30	IT (PN) provides pictures of FV and update position. IT fishing authorities declare FV as an IUU vessel.	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07)	IT (PN) IT (Fishing Authorities)	IT	P6
T4	2D6H05	Track of FV is lost in all systems.		Exchange Basic Data (DER.02).		ALL	P7
T5	2D12H30 TO 2D16H50	IT (PN) executes wide area mapping service to update position of FV. IT provides satellite picture which once analyzed show that the fishing nets are missing from last picture taken by Italian Navy MPA. FV is sailing eastward., seems is proceeding to Aegean sea. GR CG reports an aircraft is going to track IUU FV.	Publish S4. Data Augmentation Service.	Exchange Basic Data.(DER.02). Exchange Info by mail.(DER.07) Share Tracks.(DER.03)	IT (PN) IT (Navy) GR CG	IT and GR	P8 – P10
T6	2D20H30	GR (Coast Guard) update information on FV.	Provide Track. Publish S1. Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02). Share Tracks.(DER.03)	GR CG	GR	P12
T6	2D20H30	MPA gets contact with FV 20nm west of Crete.	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02). Share Tracks.(DER.03)	MPA in International Waters	GR	P13

		CG patrol boat is loitering west of Crete.			GR CG		
T6	2D21H50	The IUU FV enters Greek territorial waters and Greek patrol boat proceeds to inspect the FV. Inspection is taken and report is sent to Greek authorities.	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07)	GR CG	GR	P14
T7	01D07H00	PT(PN) report that LL is moving to STROG	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Share Tracks.(DER.03)	PT (PN)	PT and SP	P15 – P16
T8	1D23H00	SP (SN-SEGEMAR) request information when passing STROG. SP(PN-GC) and SP(PN-Navy) provide information.	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07) Exchange Media File (DER.28)	SP (SN-SEGEMAR) SP(PN-GC) SP (PN-Navy)	SP	P17
T9	1D23H00	SP (SN-SEGEMAR) request a satellite picture as the ship is moving east and lost from any surveillance system information about new position of the LL to IT(PN).	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02). Share Tracks.(DER.03)	SP (SN-SEGEMAR)	SP and IT	P17
T9	3D22H00	Some days later, IT(PN) provide a satellite picture and VIET LL is located in the restricted area of Alboran island.	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07) Exchange Media File. (DER.28)	IT(PN)	SP	P18
T10	4D10H00	SP (SEGEMAR) request new information about the position of LL.	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02).	SP (SN-SEGEMAR)	SP	P19

T10	4D20H00	SP (DAVA) sends surveillance aircraft, and the LL is relocated. SP (SN-DAVA) update track info. The LL is sailing towards to Palma de Mallorca	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Share Tracks.(DER.03) Exchange Basic Data (DER.02).	SP (SN-DAVA)	SP	P20-P21
T11	5D06H00	SP (SN-SEGEMAR) require any inspection aids close to the area.	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07)	SP (SN-SEGEMAR)	ALL	P21
T11	5D12H00	FR Prefect Maritime informs BMM that a Navy Patrol Boat (with two Fishing inspectors onboard) is going to carry out inspection.	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07)	FR(PN)	SP(SN-SEGEMAR)	P22
T11	5D14H30	SP(SN-SEGEMAR) required for the Spanish enforcement authorities (Guardia Civil) in order to adopt all the necessary precautionary measures.	Publish S4. Data Augmentation Service.	Exchange Basic Data (DER.02).	SP(SN-SEGEMAR)	SP(PN-GC)	P22
T11	5D20H00	An inspection report is sent to SP, FR and PT authorities.	Publish S4. Data Augmentation Service. Provide Track. Publish S1.	Exchange Basic Data (DER.02). Exchange Info by mail.(DER.07)	SP(SN-SEGEMAR)	SP, FR and PT	P23

Blue Mass Med Vignettes Development

Note 1: System Services to be checked in accordance with annex II of the BMM Demonstration Plan and the latest version of the BMM System View. Identification of the Node requesting /providing the service is compulsory.

Note 2: Information Exchange Requirements in accordance with annex II of the BMM Demonstration Plan and the latest version of the BMM Operational View. Identification of the Node requesting / providing the Information is compulsory.

Note 3: Identification of the Nodes involved and their role.

Note 4: All Partners involved in the Scenarios check technical feasibility of the service and information exchange requested.