

Med AIS Workshop no 4  
Lisbon 4 June 2007

STIRES 4/MED/2  
3 & 4 July 2007

### Minutes of Med AIS EWG 3

#### Submitted by EMSA

<i>Executive summary</i>	This document aims to present the minutes of the Med AIS EWG 3 meeting (held in Lisbon on 12 December 2006) and to seek for the approval of the Member States.
<i>Action to be taken</i>	As per paragraph 3
<i>Related documents</i>	Report Med AIS EWG (January 2007)

## 1. INTRODUCTION

The report of the 3rd meeting of the Med AIS EWG (held on 12 December 2006 in Lisbon) was published at the EMSA web site on 12 January 2007. This report version incorporates all the comments received and the current meeting should approve the minutes of the previous Med AIS EWG meeting.

## 2. REPORT CHANGES

The minutes under approval are attached. The text of the minutes is the same as of that published at the EMSA web site on the 12 January 2007.

## 3. ACTION REQUIRED

The Member States are invited to approve the attached minutes of the previous Med AIS EWG meeting.



European Maritime Safety Agency

## **Draft Workshop Report**

### **3<sup>rd</sup> VTM Mediterranean Expert Working Group**

Held in Lisbon on: - 12<sup>th</sup> December 2006

---

## Background

---

### Introduction

This was EMSA's third Workshop on VTM for Mediterranean maritime Member States, now recognised as the Expert Working Group (EWG) for development of the Mediterranean regional AIS.

The list of participants is attached as **Annex 1**.

The meeting was attended by delegations from: Bulgaria, Croatia, Greece, France, Italy, Portugal, Romania and Turkey. A copy of the Agenda is included as **Annex 2**.

The actions as a result of the meeting are listed in section 2,

Note: Fuller presentation details may be obtained by referencing copies of the original papers and presentations, copies of which can be accessed from: <http://www.emsa.eu.int/end806.html>

---

## Workshop Objectives

---

The aim of the workshop was to advance and agree a working plan and time table to reach the set target date, namely to establish a common Mediterranean Sea monitoring system for maritime traffic based on national AIS data by 31 December 2008, including the necessary technical specifications.

Two basic components are required for this:

- establishment of national networks in each Mediterranean Member State; and
- a decision on how to make access to these national systems.

---

## Workshop Programme

---

### 1. Opening of the meeting

Mr. Emilio Martin Bauza, Head of Unit E, welcomed participants to the workshop. Mr Lazaros Aichmalotidis acted as a chairman of the meeting. Turkey expressed their appreciation to EMSA for being invited to the meeting.

### 2. Member States' replies to the proposal from Italy

EMSA gave an oral summary of replies received from the MS to the offer made by Italy (given informally by Italy during the 2<sup>nd</sup> EWG meeting and later on by sending formal letter to the competent Authorities). All of the views received and forwarded to EMSA have so far been in support of the proposal.

Spain supported the proposal under the umbrella of SSN. Malta also supported the initiative, recalling that issues still to be dealt with included the interface, running costs and not to forget related SafeMed interests. France had provided their support in letters from the foreign affairs and transport Ministries; the latter raising concerns with regard to potential "interactions" with data systems and the need to reduce the

necessary data flows to a minimum. In response to this, a need to properly define what was meant by "real-time" was recognised by the Group.

After having receiving additional clarifications, Greece had also supported the initiative, but suggested that the system had to be developed also for purposes of surveillance of maritime borders. All of the participants supported the initiative, but it was noted that formal replies had not been received from Slovenia and Romania.

### **3. Candidate countries replies to the proposal of Italy**

Croatia affirmatively considered the proposal of Italy offering the relevant hosting environment in parallel with the initiative of Croatia for participating as observer country in the AIS EWG. The representative of Turkey also supported the initiative and stated that a formal reply would be sent soon.

The Group was asked to note that participation in the common Mediterranean system by non-Member States (third countries) can only be set up with the agreement and in full co-operation of the Member States, which are the main data providers and owners of the information stored in the system. In the near future, both legal and technical issues relating to such co-operation will have to be thoroughly investigated and a decision will have to be taken on an appropriate format of co-operation agreements.

### **4. Offer of Bulgaria**

Bulgaria, had also raised a new possibility of their hosting a server for a Black Sea system.

In response to a question by the Chairman, Mr Petar Ivanov clarified that Bulgaria would participate in the common Mediterranean system. Their proposal for developing a Black Sea server was due to the special environmental sensitivity in that sea area.

### **5. AIS data formats and messages**

The types of messages and data rates available were considered by the Group in a presentation provided by Mr. Stefan Bober. The messages and data transfer rates supported in the Baltic and the North Sea Regions were explained and supported for the Mediterranean Region. Though useful, it was considered that any agreement to include message 9 for SAR aircraft was currently premature, but with a proviso stipulated below.

Detailed technical presentations of data distribution, update rates, interfaces and access rights based upon the experience of the systems in the Baltic and North Seas was provided by Mr. Habib Khayat of the Danish Administration.

The AIS EWG agreed the following:

- a. Both static, dynamic and voyage related information should be recorded. The messages that are of interest are the "Position report" and the "Static and voyage related data". The exchange of data in the Med AIS shall follow the format specified in IEC 61162-2. This format is based on an encapsulation of the ITU-R M.1371-2 radio message.
- b. The messages to be transferred are those covering static, dynamic and voyage related data, covering messages 1, 2, 3 and 5. These messages, defined in the ITU-R Recommendation M.1371-1. The Msg 4 base-station report should be added to the messages that are transferred from each MS to the MED server. The addition of Msg 4 is made for technical reasons.

- c. Additional message (Msg 9) may also exchange in the future. The need for Class B related messages (Msg 18, 19, 24a and 24b) and a higher update rate for messages from vessels involved in SAR operations should also be further evaluated.

## **6. Update rate**

AIS information for all vessels falling within the scope of the Directive 2002/59 shall be transferred between the Mediterranean MS with an update rate of once every six minutes. Mediterranean MS, that need to exchange AIS information at higher update rates and with additional AIS message content may agree to do so on a bilateral basis. The Med AIS server may be developed to provide support for such special bilateral data exchanges.

## **7. Statistics**

The group welcomed an offer from France to further investigate what data items from other MS would be appropriate to record for the future use (VTS, VTMS, SAR, etc.) and for statistics. EMSA will provide France with background material of the statistics produced by the HELCOM AIS.

## **8. Level of security / communications**

The group welcomed an offer from Italy to further investigate the technical aspects and possibilities with respect to the security and communication requirements through Internet.

## **9. Data distribution/Access rights**

The group noted that the messages exchanged through the Med AIS server would be of the same nature as the "ship notification" messages of SSN. The group agreed that users of the Med AIS server would be the same as the SSN users of the Med MS.

The group noted that discussions on "access rights" are ongoing within the framework of the SSN Group and agreed that the same rules should be implemented for the Med AIS server.

## **10. Definition of the "real time" term**

In view of comments made by France, the group recognised a need to better define what was meant by "real-time" in the context of STIRES. It was agreed that for "real-time" the following is meant:

*"Data is delivered end-to-end, non-stop, one vessel report after the other.. The data is not sent in blocks but in real-time promptly when they are received and without any delay.*

*However, this does not mean that all messages received by the national centre are relayed / forwarded to the regional level in real-time. Only messages with a time interval are sent which are received with no delay".*

The group agreed for EMSA to draft a paper presenting what is the actual meaning of the term "real time" and to present it to the MED AIS EWG 4 meeting.

## **11. AIS master plan**

Mr. Stefan Bober provided a further presentation on the subject of the AIS Master Plan. Amongst other issues a FATDMA plan for Europe was discussed. For the Baltic Sea Region a FATDMA plan had been developed in accordance with IALA Recommendation on AIS Shore Station and Networking Aspect relating to the AIS Service (IALA Rec. A-124 Ed 1.2). It was recognised that such a plan could be extended to the Mediterranean and that the subject and this proposed solution, could be raised at a future meeting.

The group noted that EMSA has recently collected relevant information about the current shore based AIS infrastructures of the MS' AIS (coverage, functionality) as well as systems that are planned for the future (coverage, functionality, timetable for implementation). EMSA requested the MS to update and send the information and to complete it where it is incomplete or where specific information is missing. On the question of coverage, it was agreed that overlappings could be considered as beneficial in certain cases.

## **12. Assistance to Turkey and Croatia**

It was revealed that Turkey and Croatia both lacked information about EMSA initiatives on the subject of traffic monitoring. Both countries requested EMSA to consider organising a training session to provide background information to Turkey and Croatia on traffic monitoring. EMSA will consider the request, subject to receipt of an official letter.

## **13. Technical meeting with Italy**

The group noted that most future work must be carried out by the Italian Administration, including not only the server application but also the AIS proxy application, the latter being also provided for use by participating Mediterranean MS. To better facilitate a common understanding of the server application that will be developed; Italy will organise a meeting with their contractor and EMSA to discuss the technicalities and to achieve a common understanding on what needs to be done. The meeting will be held in Italy in early 2007 and before the next meeting of the MED AIS EWG.

## **14. Action List and Time Plan**

EMSA presented an action list and the time plan for implementation for the Mediterranean regional AIS system which was agreed by the meeting participants subject to a revision of Action Item 4 on the plan "Mediterranean Server Implementation". Action Item 4 will be further reviewed and analysed during the EMSA-Italy meeting that will be held before the next Med AIS EWG meeting (meeting 4) and will be presented for adoption at that meeting.

## **15. "Things to do" list for the MS**

Most application development work would be carried out by the Italian Administration. Regarding actions for other MS, the Group noted a "things to do" list as follows:

- Implementation of national AIS networks to collect national AIS data to one point of access, a national AIS server, by the end of 2007. The technical methods applied for national AIS networks are of no relevance to the cooperation as long as they deliver the AIS data to the server.

- Install the AIS subscriber proxy and provider proxy for receiving and transmitting data from/to the national AIS server. Define AIS server IP addresses for the proxy applications to be able to communicate with AIS servers; required to enable communications with the AIS regional server application (two, if these functions are separate).
- Provide SSL certificates to enhance the security of the AIS data exchange between the AIS regional server and the AIS subscriber proxy via the internet.
- Define the national Authorities and their roles (who will have access to the exchanged AIS data? – a Helcom model matrix was supplied for information).

## **16. National AIS network / node**

MS collect national AIS data to one point of access, a national AIS-server. National Mediterranean Member States' AIS data could be stored in national databases.

EMSA requested MS to define the nodes that will send/receive data to/from the regional server and to define the Authority which will be responsible for conducting the operation.

## **17. Meeting Follow-up Actions**

- a. On the national infrastructures, MS should supply the information to EMSA in those cases where it is out of date, incomplete or where specific information is missing.
- b. MS should identify the central node for collection of the national AIS data to one point of access. The central node for receiving of the data from the regional server should also be identified if different from the above.
- c. On data items for future use, France was invited to gather further information on information considered necessary for this purpose. MS should send their views on this to the French representative and to prepare to present it at the Med AIS EWG 4.
- d. On the levels of security of the data, Italy would be responsible for gathering more information on this issue area and more would be presented at the Med AIS EWG 4.
- e. National participants were requested to endorse all of the actions by the Group and to ensure these views were passed to their policy representatives, including those that attend the COSS meetings.
- f. On the agreed Time Plan, Action Item 4 will be further reviewed and analysed during the EMSA-Italy meeting (ref: g) that will be held before the next MED AIS EWG meeting (MED AIS EWG 4) and will be presented for adoption at that meeting.
- g. The Group endorsed the need for Italy (and its contractors) to meet separately with EMSA to discuss detailed technical issues. The first of such meetings were likely to take place in February 2007. The results would be disseminated to the Group.
- h. EMSA will draft a paper presenting what is the actual meaning of the term "real time" and present it to the MED AIS EWG 4.

**Annex:**

- I) List of participants
- II) Workshop Agenda.
- III) Revised Project Time Plan



### ANNEX I – List of Participants

Country	Firstname	Name	Organisation	e-mail
EMSA	Emilio	MARTIN BAUZA	Head of Unit Technical Cooperation and Development	
EMSA	Lazaros	AICHMALOTIDIS	Senior Project Officer on Ship Reporting	
EMSA	Paul	WILKINS	Policy Officer on Safety of Navigation	
Speaker	Stefan	BOBER	German Federal Waterways and Shipping Administration; Traffic Technologies Centre	<a href="mailto:sbober@fvt.ws.v.de">sbober@fvt.ws.v.de</a>
Speaker	Habib	KHAYAT	Royal Danish Administration of Navigation and Hydrography	<a href="mailto:HAK@frv.dk">HAK@frv.dk</a>
ITALY	Giuseppe	AULICINO	Italian Coast Guard	<a href="mailto:giuseppe.aulicino@infrastrutturertrasporti.it">giuseppe.aulicino@infrastrutturertrasporti.it</a>
CROATIA	Lukša	CICOVACKI	Ministry of Sea, Tourism, Transport and Development of the Republic of Croatia	<a href="mailto:Lukša.Cicovacki@pomorstvo.hr">Lukša.Cicovacki@pomorstvo.hr</a>
FRANCE	Regis	GALLIARD	DAM	
TURKEY	Mehmet	POROY	Head of Maritime Department, Ministry of Foreign Affairs	-
BULGARIA	Ivanov	PETAR	Bulgarian Maritime Administration, Executive Agency	<a href="mailto:peter_iv@marad.bg">peter_iv@marad.bg</a>
PORTUGAL	José Manuel	AFREIXO NUNES DA CRUZ	Instituto Portuario e dos Transportes Marítimos	<a href="mailto:jose.cruz@imarp.pt">jose.cruz@imarp.pt</a>
ROMANIA	Emil Pantelemon	GUSA	Romanian Naval Authority	<a href="mailto:pgusa@ma.ro">pgusa@ma.ro</a>

## ANNEX II

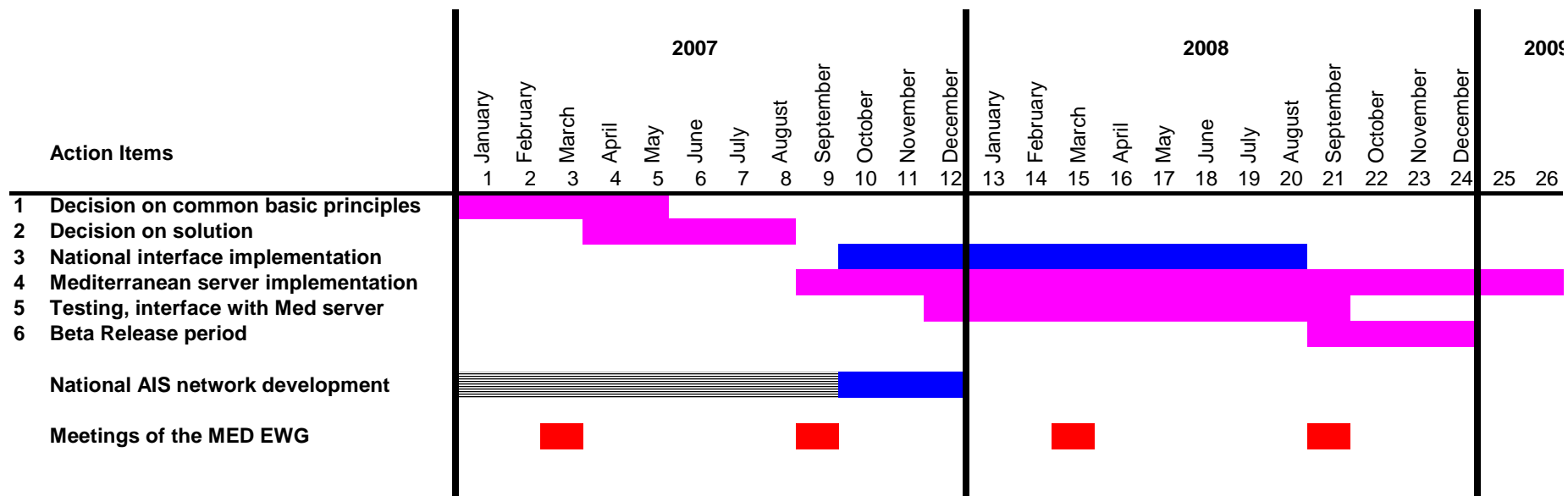
### 3<sup>rd</sup> Workshop on Vessel Traffic Monitoring and its Mediterranean dimension/Experts' Working Group Agenda

#### **Programme – 12-12-2006**

09:00	Registration and coffee	
09:30	Welcome address	
09:45	Wrap up from previous meeting.	EMSA
10:00	STIRES Principles discussed during the 1 <sup>st</sup> Experts' Review	EMSA
10:30	MS' replies to the proposal from Italy	EMSA
11:00	Coffee break	
11:15	AIS data formats and messages	Mr Stefan Bober
12:00	Update rates	Mr Habib Khayat
12:45	Lunch break	
14:00	Interfaces	Mr Habib Khayat
14:30	Data distribution/Access rights	Mr Habib Khayat /EMSA
15:00	Applications	EMSA
15:30	Coffee break	
16:00	AIS Master Plan	Mr Stefan Bober
16:30	Timescales/Future Planning	EMSA
17:00	Discussion/ Conclusions/ Future Meetings	EMSA
18:00	End of Meeting	

---

# ANNEX III - DRAFT ACTION AND TIME PLAN FOR IMPLEMENTATION OF MEDITERRANEAN REGIONAL AIS\*



\*Ref: Action Item 4 -