



International Civil Aviation Organization

**Aeronautical Telecommunication Network/Internet
Protocol Suite Working Group**

**Fourth Meeting (ATN/IPS WG/4)
(Cairo, Egypt, 21-23 May 2012)**

Agenda Item 4: Follow-up the progress of MID Region ATS Message Management Centre (MID AMC) project

**MID ATS MESSAGING MANAGEMENT CENTRE PROJECT
(MID AMC)**

(Presented by Jordan)

SUMMARY

This paper briefs the MID AMC progress and present a Memorandum of Agreement to be signed by all cooperating MID states in the MID AMC project.

Action by the meeting is at paragraph 3.

REFERENCE

- MIDANPIRG/13 Report

1. INTRODUCTION

1.1 The state-of-the-art ATS Messaging Handling system (AMHS) has been installed and commissioned in most of the MID states, and it's the target technology to be used instead of the obsolete AFTN/CIDIN.

1.2 The partial migration to AMHS has already started in several states; new international AMHS links replaced AFTN/CIDIN connection. But the migration at national level yet needs more preparation and planning, the existence of legacy end systems limit that type of development.

2. DISCUSSION

2.1 The introduction of the new technology (AMHS) makes the routing update process complicated and the need for an automated tool with centralized management imperative. The European AMC is being used in EUR/NAT region for ensuring optimum consistent routes.

2.2 The Introduction of AMHS and the implementation of new circuits make the manual maintenance of the routing directory difficult and complicated. The meeting recalled that in Europe this function is done by AMC operator with the aid of routing software where the AMC operator would have a complete view of the network; in addition AMC has a function utilized to create an optimum routing table, however this function has not been provided to the External com centre.

2.3 Based on the above, MIDANPIRG/12 tasked ICAO MID Regional office to request Authorization from EUROCONTROL to provide routing functions and additional function available in the AMC to the MID Region, it was indicated that additional workload on EUR-AMC operator will be required and as a result of the meeting, between EUROCONTROL and Jordan, there options were identified for supporting the MID Region. The discussion and analysis by the ATN/IPS WG and CNS/SG for the three options indicated that most appropriate way forward for the MID Region will be that ICAO MID Region establish its own MID-AMC.

2.4 Consequently, MIDANPIRG/12 agreed to establish a similar regional project MID ATS Messaging Management centre (MID AMC), to be hosted and led by Jordan.

2.5 The MID AMC Project initiative was taken to fulfil the following goals:

- ✓ To facilitate transition from AFTN/CIDIN to AMHS.
- ✓ To support states with AMHS in operation or on their way to implement.
- ✓ To provide Routing management function that can ensure optimum consistent routes.
- ✓ To provide an electronic tool to keep ANP FASID data up-to-date.

2.6 The project activities are divided into two phases which correspond to the goals of the project, the first is the development of AMF-I and some AMF-O functions (network inventory, address management), and Phase two will focus on the Routing function development to fulfil the main objective of the project. Phases 1 development was successfully completed.

2.7 Furthermore, a 2-days refresher External AMC user course was conducted on 9-10 April 2012, for the MID AMC operators before enrolling in the MID AMC activities.

2.8 The meeting may wish to note that, in order to formalize the process of MID AMC project, MIDANPIRG/13 agreed on the following Conclusion 13/27:

***CONCLUSION 13/27: MID-ATS MESSAGE MANAGEMENT
CENTRE (AMC) PROJECT***

That,

- a) Jordan complete the development of the MID-AMC;*
- b) ICAO MID Regional Office communicate with EUROCONTROL to provide the necessary support for the project;*
- c) ATN-IPS WG and CNS SG develop the necessary legal framework for the use of the MID-AMC; and*
- d) MID States be encouraged to use the MID-AMC on trial basis for one year.*

2.9 Based on above, Jordan has developed a legal model to be signed by all participating states in the MID AMC Project. The Memorandum of Agreement model (MOA) is at **Appendix A** to this working paper.

3. ACTION BY THE MEETING

3.1 The meeting is invited to review, update, approve and sign the legal financial model at **Appendix A** to this working paper.



**Middle East Regional ATS Messaging
Management Center
(MID AMC)**

**MEMORANDUM
OF AGREEMENT**

Jordan - May, 2012

MEMORANDUM OF
AGREEMENT

On the establishment, operation and management of the
Middle East Regional ATS Messaging Management
Center (MID AMC) and its funding by Jordan

1. PARTIES

1.1 The Parties to this memorandum of agreement are: Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, UAE and Yemen. and any other ICAO MID Region States

2. AGREEMENT

- CONSIDERING the urgent need to institute a programme, on a regional basis, for a high quality AFS network and efficient data exchange.
- CONSIDERING the Parties' earlier decision that the Middle East Regional ATS Messaging Management Center (MID AMC) will be funded by Jordan.

The Parties have agreed as follows:

1. The Preamble, MIDANPIRG/13 Conclusion 13/27 and CARC's Letter No. 22/1000/11/2926 dated 3/August/2011 hereto shall constitute an integral part of this Memorandum of Agreement.
2. The Parties to this memorandum of agreement, referred to hereunder as Participating States agree to establish the Middle East Regional ATS Messaging Management Center (MID AMC) and undertake to become its members;
3. The MID AMC shall be managed as a Regional programme; shall have legal personality and shall act through the MID AMC Board;
4. The overall objective of the MID AMC is the promotion of efficiency and safety of air navigation in the Middle East Region through the operation and management, on a sound and efficient basis, of a permanent MID Regional ATS Messaging Management Center;
5. The MID AMC Board, in which each Participating State is entitled to appoint one member, shall retain overall direction and responsibility for the supervision and operation of the MID AMC in accordance with the relevant obligations of the Participating States. The Board shall elect its chairman. It shall inter-alia, supervise and direct the MID AMC, follow-up its activities and reports and assign its priorities;
6. The MID AMC's scope, duties and responsibilities will be those agreed by the Board's first meeting and could be revised by the Board. The MID AMC will be assigned clear tasks in a step-by-step approach starting with MID AMC establishment. The MID AMC duties and responsibilities will include, but will not be limited to the following:

Collecting and analyzing ATS Messaging data received from MID States as well as from European AMC;

Establishing a consistency among data from EUROPEAN AMC to the MID AMC and vice versa;

Ensuring the continuous harmonization of data over an AIRAC cycle

Propose optimum routing based one regional change

Create access accounts and authorization according to regional procedure

Create necessary reports and documents

Submit a report to each Board meeting on MID AMC activities;

7. The Participating States have accepted Jordan's offer to host the MID AMC in Jordan to enable the early establishment and functioning of the MID AMC; for which participating States will not be charged
8. Jordan will provide the offices, software, equipment and local personnel needed for the MID AMC operations and pay for the set up of the MID AMC;
9. In case of the need for the MID AMC enhancement or addition for any service it will be decided by the board for the requirement and cost which may be borne by Participating States on equal basis ;
10. The MID AMC staff shall be composed of:
 1. MID AMC Project Manager (Full Time)
 2. MID AMC Project Assistant (Full Time)
 3. Five MID AMC operators (Full Time)
11. The MID AMC Project Manager shall manage the project on day-to-day basis and effect coordination with the Chairman of the MID AMC Board. He/She shall submit the MID AMC reports to the Board with copies to the ICAO Regional Office in Cairo;
12. This Memorandum of Agreement shall come into effect on the date it has been signed by the Participating States;
13. Any amendment to this Memorandum of Agreement, shall be carried out by the parties to this Memorandum of Agreement;
14. Any dispute arising out of or relating to this Memorandum of Agreement, shall be settled by direct consultation between the Participating States concerned; and within the framework of MIDANPIRG

15. Any Participating State may withdraw from this Memorandum of Agreement by giving a prior written notice of six (6) months to the MID AMC Board. The obligations assumed by the Participating States under this Memorandum of Agreement shall continue to exist after the withdrawal from this Memorandum of Agreement to the extent necessary to permit the orderly finalization of activities, the withdrawal of personnel, the distribution of funds and assets and the settlement of contractual obligations. Additional funds, if necessary, to cover the above mentioned expenditures shall be provided by the Participating States.
16. The hosting of the MID AMC by Jordan may be terminated at the request of Jordan, with two years advance written notification to the MID AMC Board to allow sufficient time for selection of an alternative location and necessary arrangements for setting up a new MID AMC.
17. All correspondence relating to the implementation of this Agreement shall be addressed to:

MID AMC
Chairman of the MID AMC

With copy to the:

ICAO Regional Director
ICAO Middle East Regional Office
Egyptian Civil Aviation Complex, Airport Road
P.O Box 85, Airport Post office, Terminal One
11776, Cairo, Egypt

Agreed on behalf of participating States

State	Signature	Title	date
Bahrain			
Egypt			
Iran			
Iraq			
Jordan			
Lebanon			
Kuwait			
Oman			
Saudi Arabia			
Syria			
UAE			
Yemen			