



International Civil Aviation Organization

**MIDANPIRG Communication Navigation and Surveillance
Sub-Group (CNS SG)**

Fifth Meeting
(Cairo, Egypt, 11 - 13 December 2012)

Agenda Item 3: Review ATN-IPS Working Group Reports

MID-AMC PROGRESS REPORT

(Presented by the Jordan)

SUMMARY
This paper presents the outcome of the MID-AMC project and the progress achieved in the implementation, and suggests the next steps to launch the operation of the MID AMC.
Action by the meeting is at paragraph 3.
REFERENCE
- ATN-IPS WG/4 Report - 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. Consequently, MIDANPIRG/12 agreed to establish a similar regional project MID ATS Messaging Management centre (MID AMC), to be hosted and led by Jordan.

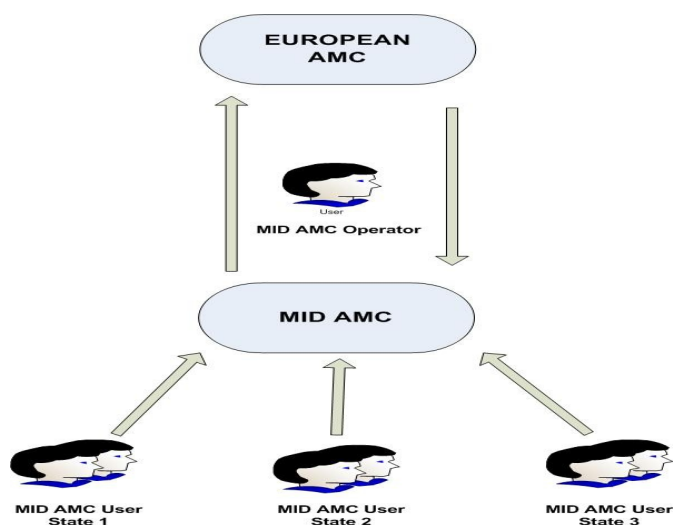
2.2 The project activities are divided into two phases which correspond to the goals of the project, the first is the development of AMF-I and some AMF-O functions (network inventory, address management), and Phase two will focus on the Routing function development to fulfill the main objective of the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

2.3 The meeting may wish to note that after Completion of the Phase-I and in order to establish a consistency among the Master AMC and MID AMC, a meeting with EUROCONTROL was held in Amman from 16-17/July/2012, the output of the meeting was:

- a) Agreement on Synchronization procedure between two AMCs
- b) The EUROCONTROL Expert evaluated the MID AMC functionalities.
- c) Agreement of Memorandum of Understanding (MOU) model between Jordan and EUROCONTROL that grants Jordan the rights to use AMC assets (copyrights and patent).

2.4 The agreed Synchronization protocol as following:

- a) MID AMC Operator act as a Regional Focal point on the European AMC.
- b) Transfer External AMC users of the MID Region to the MID AMC.
- c) MID AMC Operation procedure was produced, new phases were added; the MID AMC cycle is at **Appendix A** of this paper.
- d) MID AMC Operator to use either manual replication or import function to duplicate data and detailed action to be written in MID AMC Operator Manual.
- e) MID States to assign additional Users to MID AMC.
- f) EUROCONTROL will no more accept new users from the MID Region and MID AMC has to create accounts for all Regional users.



-3-

2.5 The meeting may recall during MIDANPIRG 13, the meeting agreed on conclusion 13/27 to formalize the MID AMC Operation. Based on that the Memorandum of agreement (MOA) was developed in the fourth meeting of ATN/IPS workgroup, so far three states have signed the MOA.

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) States be encouraged to use the MID-AMC on trial basis for one year.*

2.6 Phase two of MID AMC Project has been successfully completed and the system has been accepted and implemented. The trial period will commence on 12/12/2012.

2.7 The meeting may wish to know that the successful operation of the MID AMC bears much on the active participation of all Regional users to test its functionalities and procedure during the trial period, therefore all users is encouraged to take part of this trial and provide their feedback.

2.8 Furthermore, MID AMC needs to have latest data regarding the connections and AFTN/AMHS/CIDIN Routing tables.

2.9 Based on Above, the meeting is invited to agree on the following draft Conclusion:

CONCLUSION 5/X: MID AMC OPERATION

- a) States to sign the MOA and nominate three MID AMC users.*
- b) MID AMC users to participate in the trial period and provide feedback periodically taking into consideration the new operation procedure.*
- c) State to send their AFTN/AMHS/CIDIN Routing tables to the MID AMC Operator.*

3. ACTION BY THE MEETING


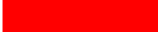





3.1 The meeting is invited to:

- a) note the information in this paper;
- b) agree on Para 2.9; and
- c) propose a date to start the real operation of the MID AMC.

MID AMC Operation Procedure

Day in cycle	Data Entry in MID AMC	DATA Transfer to the Master AMC	Routing preparation	Data Replication	ACK Phase	ACK Processing	Data Ret. Data Release
1							
2							
3							
4							
5							
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Legend

-  MIDAMC Operator locks COM centers
-  AMC Operator locks COM centers
-  AMC Operator transfers to pre-operational area
-  MIDAMC Operator transfers to pre-operational area
-  AMC operator releases the routing matrix
-  MIDAMC operator imports addressee lockup tables & releases routing Matrix
-  AMC Operator & MIDAMC operator move data to operational area, unlocks COM centers and makes official publications