International Civil Aviation Organization

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

Fifth Meeting
(Cairo, 11 – 13 December 2012)

Agenda Item 3:   **Review of the ATN-IPS Working Group report**

REVIEW AND UPDATE OF AFTN/CIDIN DIRECTORY

(Presented by the Secretariat)

SUMMARY
This paper presents current version of the Routing Directory for AFTN/CIDIN Centers in the MID region with a view to update it with the latest information from participating States and propose ways for future update.
Action by the meeting is at paragraph 3.
REFERENCE
- ATN-IPS WG/4 Report   **-** MIDANPIRG/13 Report

1. **INTRODUCTION**

1.1   The Routing Directory for AFTN/CIDIN Centers in the MID Region was last updated during CNS SG/4 meeting held in Cairo, Egypt, 25 – 27 September 2011, as at **Appendix A** to this working paper.

2. **DISCUSSION**

2.1   The meeting may wish to note that a periodical data collection and publication in the MID ANP FASID for the AFTN/CIDIN/AMHS circuits and other related information is a human resource extensive task and would need to be supported by electronic tools, e.g. centralized database. In this context the meeting was apprised that AFTN/CIDIN/AMHS international connectivity information was maintained in ICAO EUR Region by EUROCONTROL in the AMC. Consequently, MIDANPIRG/13 meeting agreed that ICAO MID Regional Office request EUROCONTROL for the possibility to extend these tools to ICAO MID Region.

2.2   MIDANPIRG/13 meeting noted that MID States could utilize EUR-AMC to obtain some of the information electronically. Consequently, the meeting urged MID State to access the AMC website http://www.eurocontrol.int/amc and keep all information related to their States updated. Accordingly, MIDANPIRG/13 meeting agreed to the following Conclusion:

CONCLUSION 13/25:   U*PDATE THE AMC SYSTEM*

That, States be urged to keep the data related to their COM CENTER updated in the EUR-AMC system.

2.3   The meeting was updated on the MID AFTN/CIDIN routing directory and agreed that the ICAO MID Regional Office to coordinate with Jordan for the population of the MID AFTN/CIDIN routing directory in the MID-AMC when it becomes operational, also to post the directory in the ICAO MID website. Accordingly, MIDANPIRG/13 meeting agreed to the following Conclusion:

CONCLUSION 13/26:   MID AFTN/CIDIN DIRECTORY
That, ICAO MD Regional Office:

a) *take necessary steps with Jordan to populate the MID AFTN/CIDIN Directory in the MID-AMC; and*

b) *post the MID AFTN/CIDIN Directory in the ICAO MID Website.*

2.4   MIDANPIRG/13 meeting noted that Asymmetric routing may cause loss of messages due to the fact that a gateway cannot map a Non-Delivery Report to a subject message and noted that Singular AMHS diversion for an area representing several Private Management Domains (PRMDs) is substantial and cannot be performed by one letter as used in AFTN, to facilitate a diversion from AFTN to AMHS and vice versa.

2.5   Based on the above, MIDANPIRG/13 meeting urged MID AMHS COM Centres to review the current routing tables and make sure of deploying symmetric routes where possible, also encouraged MID States to make use of the corresponding PRMDs table to facilitate diversion from AFTN to AMHS and vice versa. Furthermore, MIDANPIRG/13 meeting agreed that States start the PRMD with the first two letters for their location indicator. Accordingly, the requirement for an easy access to an updated PRMD files is necessary, in this regard MIDANPIRG/13 meeting noted that Jordan   volunteered   to   keep   the   PRMD   file   updated   on   their   website: http://www.carc.gov.jo/inner_en.php?menu=3&id=17

2.6   The meeting may wish to recall that Trilateral AMHS Tests have been performed between Amman, Cairo, and Jeddah. The meeting noted with appreciation that the AMHS triangle was put into operation, and was the first AMHS triangle world-wide that uses static routing with pre-defined routing tables.

2.7   Furthermore, the meeting may wish to note that Bahrain, Egypt, Jordan, Oman, Qatar, Saudi Arabia, and United Arab Emirates installed and operated AMHS systems while other MID States are in the process of installing new AMHS systems.

2.8   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.

2.9   Based on the above, MIDANPIRG/12 tasked the ICAO MID Regional Office to request authorization from EUROCONTOL 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, three options were identified for supporting the MID Region requirement. The discussion and analysis 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. Accordingly, the meeting agreed to following Conclusion:

> *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.*

2.11   Based on the above ATN/IPS WG/4 meeting developed Memorandum of Agreement (MOA) as **Appendix B** to this working paper and proposed establishment of MID AMC Board to be responsible for the MID –AMC operation and developed Terms of Reference (TOR) for the MID AMC as at **Appendix C** to this working paper.

2.12   Furthermore, Jordan has informed that they are in User Acceptance Testing phase of MID AMC Project, that MID States are currently registered as External AMC Operator on EUR AMC, Jordan will create accounts for MID States MID Regional AMC and will request MID States to take part in MID AMC Trial shortly. Furthermore, Jordan requested to collect initial data such as AFTN/CIDIN/AMHS Routing tables to enter them into MID AMC system.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

> a)   review and update the AFTN/CIDIN routing directory which is at **Appendix A** to this working paper;

> b)   review and update MOA and TOR at **Appendices B and C** to this working paper;

> c)   provide necessary information to Jordan; and

> d)   State start using MID AMC as in para 2.12.

INTERNATIONAL CIVIL AVIATION ORGANIZATION
MIDDLE EAST OFFICE

Routing Directory for

AFTN and CIDIN Centres

in the MID Region

Version 0.5 -October 2011

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) fully funded by Jordan

1.   PARTIES

1.1   The Parties to this memorandum of agreement are: Bahrain, Egypt, Iran, I r a q , 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 (technical), 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; at no charge to MID States

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 and provided and funded by Jordan:

      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
Civil Aviation Regulatory
Commission P.O. Box 7547
Amman Jordan

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			
Kuwait			
Lebanon			
Oman			
Qatar			
Saudi Arabia			
Syria			
UAE			
Yemen			

APPENDIX C

MID-AMC Board TOR

1. Terms of Reference (TOR)

1.1 The Terms of Reference of the MID AMC board are:

   a) To promote the efficiency and safety of aeronautical fixed services in the MID Region through the operation and management, on a sound and efficient basis, of a permanent MID Regional ATS Messaging Management Center (MID-AMC);

   b) Foster the implementation of the Air traffic service Message handling service in the MID Region through provision of the guidance materials and running facilitation tools, utilizing the MID-AMC

1.2 In order to meet the Terms of reference, the MID-AMC board in coordination with ATN-IPS WG shall:

   a) Develop a credential procedure for all users on the MID-AMC.

   b) Develop and maintain guidance materials for MID-AMC users.

   c) Discuss and identify solution for operational problems may be arising.

   d) Provide support/guidance to states for AMHS Implementation, and monitor the AMHS testing activities.

   e) Assist and encourage states to conduct trial on Implementation of the ATS extended services, and identify operational requirements.

   f) Identify the need for any enhancement for the MID AMC and prepare functional and technical specifications.

   g) Follow-up and review the work of similar groups in other ICAO Regions.

2. Composition

   All MID States; and

   Other representatives, who could contribute to the activity of the board, could be invited to participate as observers.

- END -