International Civil Aviation Organization

MID ATS Message Management Center Steering Group

Second Meeting (MIDAMC STG/2)
(Cairo, Egypt, 10 – 12 March 2015)

Agenda Item 4:   **Enhancement of the MID AFS Network services**

AFS REQUIREMENT FOR ROC IN THE MID REGION

(Presented by the MIDAMC)

SUMMARY

This paper presents the AFS network requirements needed for the Regional OPMET Center (ROC) in Jeddah and Bahrain, also proposes to develop detailed implementation plan.

Action by the meeting is at paragraph 3.

REFERENCES

- CNS SG/6 Report
- MET SG/5 Report
- MSG/4 Report

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1.   INTRODUCTION

1.1   The Fourth meeting of the MIDANPIRG Steering Group (MSG/4) was held at ICAO Regional office in Cairo, 24-26 November, 2014. The meeting was attended by thirty-one (31) participants from nine (9) States and Two (2) Organizations.

1.2   The Fifth meeting of the Meteorology Sub-Group of the Middle East Air Navigation Planning and Implementation Regional Group (MET SG/5) was hosted by Presidency of Meteorology Affairs and Environment (PME) in Jeddah, Saudi Arabia, from 2 to 4 September 2014.

2.   DISCUSSION

2.1   The MSG/4 meeting was apprised with the development related to OPMET exchange and establishment of the Regional OPMET Center (ROC) in Jeddah and Backup center in Bahrain.

2.2   The meeting recalled that, in accordance with Annex 3 the OPMET will start exchanging data in digital format from 2019. The digital format cannot be handled in AFTN and CIDIN, therefore AMHS should be fully implemented in the MID Region.

2.3   Furthermore, the fourth meeting of the MSG group agreed that the MIDAMC STG should develop a plan to implement AMHS interconnection between MID and EUR Region, and agreed to the following MSG conclusion:

> *MSG CONCLUSION 4/21:   AMHS ROUTING FROM MID TO EUR REGIONS*
>
> *That, the MID-AMC develop a plan to implement AMHS communication paths between Jeddah-Vienna, and Bahrain-Vienna before 31 March 2015, to enable the exchange of OPMET data in digital form between the MID and EUR Regions.*

2.4   Based on the above, MIDAMC accessed the current AFS interconnection, where Athens and Cyprus are the entry/exit points between the MID and EUR Regions, and both of them do not have AMHS system in place so far, however, they plan to implement AMHS in near future.

2.5   It is to be highlighted that the current Inter-regional network is sufficient for the time being, since the exchange of OPMET data in digital format will be recommended from 2016 and will be required in 2019.

AMHS Implementation plan for Jeddah-Vienna and Bahrain Vienna

2.6   To establish an AMHS Network between Jeddah- Vienna and Bahrain-Vienna, the work falls into three dimensions:

1) AMHS Intra-regional connection in the MID Region, which is the AMHS path between Jeddah/Manama COM Centers and the gateways of the MID Region (Cairo, Beirut COM Centers)

2) AMHS Intra-regional connection in the EUR region, which is the path between Vienna COM Center and the gateways of the EUR Region (Athens and Cyprus COM Centers)

3) The Inter-regional connection between the entry/exit point of MID and EUR Regions.

2.7   AMHS path between Jeddah- Cairo COM centers already exists. Manama and Beirut COM centers does not exist and should be expedited using the existing bandwidth and the bandwidth of some trunk links may be increased later if needed.

2.8   Establishment of an AMHS link inside the MID should be according to the Regional AMHS Implementation plan, as following:

1) Establishment and Testing of the IP Network

2) Performing Bilateral Interoperability Test

3) Performing Bilateral Pre-operational Test (GO-NOGO)

4) Update the AFTN/AMHS routing Tables

2.9   The meeting may recall that, both Bahrain and Jeddah have CIDIN traffic and the transition from CIDIN to AMHS will require a significant amendment in AFTN, CIDIN and AMHS routing tables not only in the State itself but also in adjacent COM centers and others in the Network. Therefore, concerned COM Centres and the MIDAMC Operator

should identify all dependencies when the CIDIN Relay traffic is taken off a dedicated CIDIN connection in normal routing situations and in all alternate routing cases as well.

2.10   Based on above, the meeting is invited to agree on the Draft Conclusion:

DRAFT CONCLUSION 2/X: TRANSITION TO AMHS IN THE MID REGION

That, Beirut and Manama COM centres be urged to expedite AMHS Implementation to facilitate establishment of AMHS path between MID and EUR Regions.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

a) note the information and provide comments;

b) discuss and list the dependencies in para 2.9;

c) develop plan as requested in MSG/4 conclusion 4/21 in para 2.3; and

d) agree on draft conclusion in para 2.10.

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