



International Civil Aviation Organization

MID ATS Message Management Center Steering Group

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

Agenda Item 3: MIDAMC and AMHS Implementation in the MID Region

PROGRESS IN AMHS IMPLEMENTATION IN SUDAN

(Presented by Sudan)

SUMMARY

This paper reports about the AMHS Implementation in Sudan, the AMHS is in operation since 16th of February.

Action by the meeting is at paragraph 3.

REFERENCES

- ANSIG/1 Report
- Sudan AMHS Implementation plan

1. INTRODUCTION

1.1 AMHS has been identified as next generation of AFTN for data communication to support ATS messaging related exchange between ICAO Member States as part of the Aeronautical Fixed Service – AFS. The Predicted growth in air traffic and the desire for more rigid and reliable ATM system with extended functionality.

2. DISCUSSION

2.1 Khartoum COM Centre has six connections with Cairo, Jeddah, Addis Ababa, Asmara, Tripoli and N'Djamena.

2.2 In 2011, Sudan signed a contract with Thales to install and commission an AMHS system (Top Sky AMHS).

2.3 The system has been installed in 2012 And factory training has been conducted for engineers and operator in France. Moreover, Sudan prepared for the operation by attending specialized AMHS training courses in Jordan.

2.4 Sudan AMHS system includes AFTN, ATS Message server, AFTN/AMHS Gateway and P3/P7 User Agents. The system supports also ATS extended services (file transfer body part).

2.5 After completion successfully the site acceptance test, Sudan has approached the Saudi Arabia to migrate Khartoum-Jeddah interconnection to AMHS.

2.6 The IP infrastructure established and tested according the IP Infrastructure Tests Guidelines EUR Doc 027, its worth to mention that TOP SKY run over IPS infrastructure which is inline with the AMHS Implementation profile in the MID.

2.7 The Interoperability configuration document and report have been developed in coordination with Saudi Arabia and the MID AMC team, the test was performed successfully from 25-27 February, 2015. The test was conducted according to the ICAO EUR Doc 020 – Appendix E.

2.8 To check the integrity and reliability of the new AMHS link, it was agreed with Saudi to perform the Pre-operational test, the test successfully done according to the ICAO EUR Doc 020 – Appendix F.

2.9 Furthermore, twelve (12) User Agent Software have replaced the AFTN Terminals in Khartoum in order to migrate to the AMHS at national level.

2.10 The meeting may wish to recall that until the ANSIG/1 meeting 10-12 February 2015, Sudan AMHS was still not interconnected. On 16th of February, the GO decision was taken and the first AMHS link in Africa went into Operation.

2.11 Routing Tables have been coordinated with the MIDAMC Team and changed accordingly.

2.12 The meeting may wish to know, that Sudan in process to Migrate the interconnection with Cairo COM Centre to AMHS.

2.13 AMHS Post Implementation Review will be conducted after six months and report ICAO about the result.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this Paper;
- b) encourage other MID States which have connection with Sudan to start AMHS migration process; and
- c) include Sudan in ATS Extended Service Trial.