EIGHTH MEETING OF THE MIDANPIRG COMMUNICATION, NAVIGATION AND SURVEILLANCE SUB-GROUP (CNS SG/8)
(CAIRO, EGYPT, 26 - 28 FEBRUARY 2018)

KHARTOUM COM CENTRE PLAN FOR CONNECTING MID & AFI REGIONS

Khartoum Communication Centre

26-28 February 18

Sudan recall the discussion and submission of an application during the activities of MID AMC STG/3 held 26th -28th January 2016,Cairo: to consider Khartoum as an Exit/Entry point for MID and AFI Regions.

Below details, Khartoum Communication Centre capabilities and efforts done.

Khartoum Communication center is the fully integrated AFTN/AMHS switching system (AMSS). This system is directly interconnected through TCP/IP with AFTN or AMHS protocol in order to manage, receive and send the ATS messages using "AMHS" standard, The system is operationally used since November 2012 now it connect to 5 Asynchronous lines (Cairo, N'djamena, Addis Ababa, Tripoli and Asmara), on 15th of February 2015 Sudan and Saudi Arabia implemented an AMHS line between Khartoum and Jeddah through SUDATEL Company.

The AMHS system at Khartoum Center is characterized by its design for use of the (**Basic ATS Service LEVEL** X400) and (**Extended ATS Service LEVEL** X500), both of levels optional within the system and Khartoum and Jeddah are testing the capability of the extended services by exchanging maps, briefing of FPL as attachment and can contact any other means of communication.

On 15th of February 2015 Sudan and Saudi Arabia implement an AMHS line between Khartoum and Jeddah through SUDATEL Company in Sudan and TELECOM in Saudi Arabia, furthermore Khartoum NAFISAT Network has been Upgraded on 16th of March 2017 so Khartoum communication center capable to establish connection via AMHS protocol with all adjacent countries.

SCAA has a contracted with Thales Company since 2005 and another maintenance contract continue till 2025 for the comprehensive support of Thales systems which are including (Software and Hardware for all systems. upgrade, Technical Assistance and Training).

Sudan geographical location gives an advantage that its located in the Centre of Africa and is surrounded by many countries, Khartoum communication centre connected via the AFTN with most of the adjacent countries, which are Asmara, Addis, Cairo, Tripoli and N'djamena, make it easy to transfer AFTN protocol linking Khartoum with these countries in AMHS protocol.

Khartoum Communication Center has a highly qualified staff. The SCAA has paid great attention to the training, provides carefully selection in the field of communications related training.

Khartoum communication center has create additional AFTN circuit for purpose of linking Sana'a communication center with rest of the world through Khartoum and Jeddah centers.

It is worth mentioning that Khartoum was in contact with Jeddah via AMHS system and now the connection with Cairo is about to be completed ,The following steps been done:

1. Sudan Civil Aviation Authority sent an official letter to the Egyptian Civil Aviation Authority concerning (Changing AFTN protocol to AMHS protocol between two countries)

2. Engineering and operation in Khartoum center sent documents of Test to Cairo, so Khartoum is waiting for Cairo response to start Tests.

MID AMC STG/3 meeting held in Cairo 2016 recalled IATA request for improving ATS messages flow with the AFI region , **mainly the missing FPLs** ,The meeting agreed for the establishment of additional Exit/Entry

through Khartoum communication centre. And the meeting noted that the ICAO MID Regional Office requested the ICAO ESAF Regional Office to define candidate state in the AFI Region for this additional Exit/Entry with the MID Region.

Khartoum Com. Centre appreciates your unlimited support.

Action required:

1. Take note of this working paper;
2. Review MID and AFI Regions AMHS Systems and taking an action.

THANK YOU FOR ATTENTION