

INTERNATIONAL CIVIL AVIATION ORGANIZATION

CAR/SAM 01/01-CNS INFORMAL MEETING

(Bogota, Colombia, 9 to 11 October 2001)

Item 3: **Review of proposals to fulfill AFS communications requirements taking into consideration CAR/SAM/3 RAN Meeting Conclusion 9/8**

(Presented by COCESNA)

Summary

This Working Paper presents COCESNA's proposal to include within the solution alternatives for the interconnectivity of the CAR/SAM networks, the study of the installation of a REDDIG link at COCESNA to improve the communications with the adjacent centres (SAM Region) and the development of ATN.

1. INTRODUCCIÓN

1.1 In accordance with AFS requirements included in ICAO's FASID tables, COCESNA needs to improve/implement certain communication requirements with Adjacent Centres of the SAM Region.

1.2 COCESNA (Central American Corporation of Air Navigation Services) provides communication services necessary for air navigation safety in the Central American area. With this aim, it is in the process of implementing a Satellite Communications System that counts with 15 earth stations located at the different countries of the Central American area (Belize, Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua), using MCPC/Frame Relay technology on the INTELSAT IS-805 satellite (orbit position 304.5°E).

2. PROPOSALS

2.1 At the Informal CNS-CAR/SAM 01/00, interconnectivity alternatives of several digital networks implemented or to be implemented in the CAR/SAM Regions were established. In accordance with Conclusion 1/1, the concerned States should study the advantages and disadvantages of the solutions for the CAR/SAM regional/domestic digital networks interconnectivity and the technical and financial feasibility.

2.2 COCESNA, through its modernization policy towards the future CNS/ATM Systems has supported the integration of the CAR/SAM Regions through the different projects lead by ICAO (MEVA Network, GNSS Regional Augmentation). Due to the need to improve/implement the FASID voice and data communications and to meet the current and future communication requirements for GNSS regional augmentation, COCESNA is considering as an alternative the Colombian Network and other options (international carriers), as well as the acquisition and implementation of a REDDIG link at COCESNA, as long as this last alternative is a financially feasible option, in view that it would have the following main advantages:

- Resolve the current deficiencies of voice and data communications of COCESNA with the adjacent centers of the SAM Region, viz Bogotá and Guayaquil.
- Implement a data channel with Rio de Janeiro for data transmission of the Reference Station for the GNSS Augmentation Trial (RLA/00/009 Project).
- Facilitate an exchange point among the Regional networks: CENSAT, MEVA and REDDIG, which would be especially useful for the future development of a ATN.

3. RECOMMENDATIONS

3.1 That the Meeting examine the different solution alternatives (including the proposal of implementing a REDDIG link at COCESNA) and urge the concerned States/Organizations to consider them.

3.2 It is expected that the conclusions of the Informal CNS-CAR/SAM 01/01 Meeting will allow to determine the technical and financial feasibility of the different solution alternatives for the interconnectivity of the CAR/SAM digital networks.

4. SUGGESTED ACTION

4.1 The Meeting is invited to:

- a) take note of the information presented in this Working Paper;
- b) examine the proposals and recommendations contained in paragraphs 2 and 3 respectively; and
- c) analyze and determine the corresponding actions in order to meet the AFS plans.