

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE**

**TWENTY-SIXTH EASTERN CARIBBEAN INFORMAL WORKING GROUP MEETING
(26TH E/CARIWG)**

(Barbados, 3 to 7 June 2002)

Agenda Item 4: CNS DEVELOPMENTS

- 4.1 Implementation management of the E/CAR Digital Network and its interconnection with other regional networks
- 4.2 Other CNS items
 - 4.2.1 Transition from AFTN to AMHS
 - 4.2.2 Radar Data Sharing among E/CAR States

(Working Paper presented by the Secretariat)

SUMMARY
This working paper proposes actions to the E/CAR WG to continue the CNS development, including the Management of the E/CAR Digital Network and its interconnection with other regional digital networks.
REFERENCES
• Report of the CAR/SAM/3 RAN Meeting (Doc. 9749). • Report of the Twenty-Fifth Eastern Caribbean Working Group Meeting. • Report of the GREPECAS/10 Meeting. • Report of the Seventeenth Meeting of Directors of Civil Aviation of the Eastern Caribbean.

1. Background

1.1 The Twenty-Fifth Meeting of the Eastern Caribbean Working Group took several decisions to continue the development of the Communications, Navigation and Surveillance systems of the Eastern Caribbean, which are listed hereunder:

- Conclusion 25/9: *CNS Shortcoming and deficiencies;*
- Conclusion 25/10: *HF Communications in the Piarco FIR;*
- Conclusion 25/11: *Implementation status of the E/CAR Digital Network;*

- Conclusion 25/12: *Review of the VHF air-ground voice communications coverage in the Eastern Caribbean;*
- Decision 25/13: *Guidance for the work of the E/CAR Informal Working Group regarding the VHF air-ground voice communication coverage;*
- Conclusion 25/14: *Transition plan from AFTN to AMHS in the Eastern Caribbean;*
- Conclusion 25/15: *Actions to implement the use of GNSS in the Eastern Caribbean; and*
- Decision 25/16: *Radar Data Sharing Task Force.*

1.2. Moreover, the Seventeenth Meeting of Directors of Civil Aviation of the Eastern Caribbean, held in Port of Spain, Trinidad and Tobago, from 4 to 7 December 2001, agreed Conclusion 17/4 – *Action to be taken by IACL with regard to the E/CAR AFS digital network*. This conclusion is aimed at improving and developing the management of operation, maintenance and installation of the Network.

1.3 Likewise, the GREPECAS/10 Meeting formulated several conclusions guiding the development of CNS systems in the CAR/SAM Regions. Among these conclusions, the following stand out:

- Conclusion 10/21: AMENDMENT OF FASID TABLE CNS 1A
- Conclusion 10/22: AMHS IMPLEMENTATION
- Conclusion 10/23: AMHS ADDRESSING SCHEME
- Conclusion 10/24: AIDC IMPLEMENTATION
- Conclusion 10/25: COORDINATION FOR DIGITAL NETWORK INTERCONNECTION
- Conclusion 10/26: DEVELOPMENT OF NATIONAL DIGITAL NETWORKS
- Conclusion 10/27: PRELIMINARY MATERIAL ON INTERCONNECTION OF AERONAUTICAL COMMUNICATION DIGITAL NETWORKS
- Conclusion 10/28: CAPACITY PROVISION FOR THE MASSIVE EXCHANGE OF INFORMATION THROUGH DIGITAL AERONAUTICAL COMMUNICATION NETWORKS
- Conclusion 10/29: SHORTCOMINGS/DEFICIENCIES RESULTING FROM A LACK OF AIR-TO-GROUND VHF COVERAGE
- Conclusion 10/30: ELIMINATION OF A SINGLE VHF VOICE COMMUNICATION CHANNEL FOR PROVIDING APP AND TWR SERVICES
- Conclusion 10/31: INDICATION OF THE VDL MODE TYPES IN FASID TABLE CNS 2A
- Conclusion 10/32: UPDATING AND PUBLICATION OF NATIONAL LEGISLATION/REGULATIONS AUTHORIZING THE USE OF GNSS
- Conclusion 10/33: INITIAL REGIONAL GUIDELINES FOR RADAR DATA SHARING AMONG ATM UNITS

2. **Discussion**

CNS Developments

2.1 In accordance with the Conclusions and Decisions of the Twenty-Fifth Eastern Caribbean Working Group Meeting, of the Seventeenth Meeting of Directors of Civil Aviation of the Eastern Caribbean, and of the GREPECAS/10 Meeting, as part of its work, the E/CAR Working Group should continue its works on the development of communications, navigation and surveillance systems.

Management of the E/CAR Digital Network

2.2 With regards to the management of the E/CAR Digital Network, it is expected that IACL will inform to the Meeting on the follow-up of Conclusion 17/4 of the 17th E/CAR DCA Meeting. Therefore, the Meeting is invited to agree to actions in order to properly implement the management of the E/CAR Network in order to improve the control, operation, maintenance and implementation.

2.3 Likewise, it is suggested that the Meeting should agree actions in order to contribute to the efforts of interconnections of the E/CAR Digital Network with the MEVA and REDDIG digital networks. Therefore the Meeting is invited to take into account that, in accordance with the MEVA/8 Meeting conclusions, the MEVA Network will be upgraded to the MEVA/II network in order to satisfy the current and future communication requirement including the impact of ATN.

2.4 It is expected that an Informal Meeting on the interconnection of regional digital networks will be convened in Lima, Peru, from 12 to 14 August 2002.

3. **Suggested actions**

3.1 The Meeting is invited to continue its work on the development of communications, navigation and surveillance systems, taking into account the following actions:

- a) take note of the contents of this working paper;
- b) continue the work to develop CNS systems, in accordance with the Conclusions and Decisions of the 25th E/CAR WG Meeting and the GREPECAS/10 Meeting guidelines expressed in this paper, especially in paragraphs 1.1, 1.3 and 2.1;
- c) continue the work to develop the E/CAR Digital Network, in accordance with Conclusion 17/4 of 17th E/CAR DCA Meeting and the consideration expressed in this paper, especially in paragraph 2.2; and
- d) consider to agree actions in order to contribute to the efforts of interconnections of the E/CAR Digital Network with the MEVA and REDDIG digital networks, in accordance with the considerations in paragraphs 2.3 and 2.4.