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WORKING PAPER

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Fifth Eastern Caribbean Network Technical Group (E/CAR/NTG/5) and Third Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/3) Meetings
Guadeloupe, France, 22 to 24 October 2014

Agenda Item 1: Review of Valid Conclusions from E/CAR/CATG/01 and ECAR/DCA/25 Meetings Related to the Work of the NTG and RDS

1.2 Review of actions concerning the First Eastern Caribbean Civil Aviation Technical Group (E/CAR/CATG/01) Meeting and the Twenty-fifth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/25) related to the E/CAR Aeronautical Fixed Service (AFS) Network

REVIEW OF ACTIONS CONCERNING THE FIRST EASTERN CARIBBEAN CIVIL AVIATION TECHNICAL GROUP (E/CAR/CATG/01) MEETING AND THE TWENTY-FIFTH MEETING OF DIRECTORS OF CIVIL AVIATION OF THE EASTERN CARIBBEAN (E/CAR/DCA/25) RELATED TO THE E/CAR AERONAUTICAL FIXED SERVICE (AFS) NETWORK

(Presented by the Secretariat)

EXECUTIVE SUMMARY

This paper makes a follow-up and revision of the E/CAR AFS Network/ Radar Data Sharing related conclusions from the E/CAR/CATG/01 and E/CAR/DCA/25 Meetings, suggesting actions and activities for the review and discussion of the E/CAR/NTG.

Action:	The suggested actions are detailed in section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• First Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/1), Martinique, French Antilles, France, 19 to 21 June 2013• Twenty-fifth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/25), St. John's, Antigua and Barbuda, 3–5 December 2013

1. Introduction

1.1 The Eastern Caribbean Network Technical Group (E/CAR/NTG) is a standing technical group to the E/CAR/DCAs providing support as well to the E/CAR Civil Aviation Technical Group (E/CAR/CATG) including its Committees.

1.2 The E/CAR/NTG is responsible of the activities related to the analysis and monitoring of the status of the current E/CAR AFS Network, to recommend measures to improve the reliability of the E/CAR AFS Network for the immediate/near term and study, analyze and follow-up on the planning, documentation and implementation of improvements to the network.

1.3 Due to this responsibility the E/CAR/NTG is an active participant to other implementation groups whenever the network infrastructure is required, as is the case for the Radar Data Sharing Activities.

2. Discussion

2.1 The follow-up to the E/CAR AFS Network/ Radar Data Sharing related valid conclusions of the E/CAR/CATG/01 Meeting and relevant tasks from the E/CAR CNS Committee are provided in **Appendix A** to this paper.

2.2 In the E/CAR/DCA/25 Meeting, the Meeting noted the progress on communications and radar data sharing presented by the Eastern Caribbean Network Technical Group and Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/NTG - E/CAR/RD), particularly on the satisfactory operation of the E/CAR AFS Network and the activities on going for implementing radar data sharing and radar displays in benefit of an improved situational awareness. **Appendix B** to this paper shows the conclusions for the Meeting to review and suggest actions.

3. Suggested Actions

3.1 The meeting is invited to:

- a) revise the status of the valid conclusions/tasks from the E/CAR/CATG/01 and E/CAR/DCA/25 Meetings;
- b) suggest actions to track the completion of these conclusions; and
- b) take any other action as deemed necessary.

TASKS TO BE FOLLOWED FROM THE E/CAR CNS COMMITTEE

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
COMMUNICATION							
4	Evaluation of required communication infrastructure to satisfy the navigation requirements based on PBN -	Analysis of communication infrastructure	States/ Territories coordinated by WG E/CAR/NTG		For the development of this task, operational PBN requirements need to be defined. The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.	Awaiting this information from the ATM Committee in conjunction with the CAR PBN Cooperative project.	Valid
9	Preliminary review of ATN Routers Regional Plan	Comments to current version of CNS Table 1Ba	States/ Territories coordinated by WG E/CAR/NTG	References to CNS table 1Ba	E/CAR States shall review and comment the initial version of the ATN Routers Regional Plan. Information available on: http://www.mexico.icao.int/CNS.html		Completed
10	Evaluation of AMHS CAAS addresses proposal	Comments to AMHS CAAS addresses proposal	States/ Territories coordinated by WG E/CAR/NTG	CAR AMHS CAAS Addresses Proposal -	E/CAR States shall review and comment the CAR AMHS CAAS Addresses Proposal. Information available on: http://www.mexico.icao.int/CNS.html		Completed
12	Perform activities for the implementation of the ATN and its applications according to the CAR/SAM Regional strategy for the implementation of the ATN and its applications. (Appendix of Agenda 3 of GREPECAS/13 Report).: i) ACT PLAN COM: 12. Perform AMHS operation trials	Trial results	USA, Trinidad & Tobago E/CAR/NTG		Involved parties shall inform of relevant activities on the planning or results of these trials.	AMHS interconnection activities are to be carried out with United States and Trinidad and Tobago. AMHS implementation is carried out based on the regional AMHS Implementation Plan.	Valid
13	ii) ACT PLAN COM: 13. Evaluation of regional networks to support ATN Applications	Trial results	States/ Territories coordinated by WG E/CAR/NTG		Evaluation of AMHS – ATN ground-ground application shall be conducted by E/CAR/NTG Group. The E/CAR/WG shall determine, based on operational requirements, the priority and gradual implementation of the ATN supporting network.	The new E/CAR AFS Network (MPLS) can expand to accommodate ATN applications. AMHS trials between Piarco and United States (San Juan).	Valid
14	iii) ACT PLAN COM: 14. Update of Regional Plan for ATN ground-ground applications	Updates to Regional Plan for ATN ground-ground applications	States/ Territories coordinated by WG E/CAR/NTG	References to CNS table 1Bb	E/CAR/WG members shall provide any update to current Regional Plan for ATN ground-ground applications (CNS Table 1Bb). Information available on: http://www.mexico.icao.int/CNS.html	AMHS implementation will be carried out within all E/CAR AFS Network members	Valid

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ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
21	Promote and coordinate diffusion of ICAO position for WRC-2012		ICAO		NAM CAR SAM Regional Preparatory Meeting for WRC-2012 (NCSRPM) was organized. E/CAR States shall complete the Point of Contact to coordinate the support to ICAO position for the WRC-2012	Note has been taken.	Completed
SURVEILLANCE							
27	Evaluation of radar coverage and identification of improvements to satisfy operative requirements	Identification of improvements and Respective Action Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	E/CAR States shall: 1. Evaluation of the existing SSR radar coverage in the E/CAR Sub-region in accordance to operational requirements and looking for situational awareness improvements. 2. Identification of any improvement on a collaborative basis. 3. Development of action plan to implement improvement.	Result is the plans for radar sharing Trinidad and Tobago, Antigua, French Antilles, Barbados, Sint Marten, Venezuela – this would cover the portion of the Piarco FIR with some overlap for redundancy	Completed
28	Radar Data Sharing implementation	Agreements and implementation of radar data sharing	Barbados, French Antilles, Saint Lucia, Trinidad & Tobago, Venezuela and Sint Maarten		The involved parties are expected to inform their advances in the agreements and implementation of radar data sharing activities, including advances in the implementation for a multi-radar data feed. The Radar Data Sharing Task Force shall provide their report on this subject.	Trinidad and Tobago is host for the radar data sharing server and presently receives the radar system tracks from Martinique and Guadeloupe. The complete project encompasses receiving radar system tracks from Barbados, Antigua, Sint Maarten and Venezuela. The merged image will be made available to the E/CAR States via the E/CAR AFS Network.	Valid
29	Evaluation of surveillance infrastructure to satisfy navigation requirements for PBN	Analysis of surveillance infrastructure	States/ Territories coordinated by WG		For the development of this task, operational PBN navigation specifications need to be defined. The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		Valid
32	ADS-C/ CPDLC evaluation and trial Plans	Plan on ADS-C and CPDLC	States/ Territories coordinated by WG			Trinidad and Tobago signed an agreement with ARINC for the provision of FANS 1/A services. Trinidad and Tobago will carry out trial with ADS-C and CPDLC functionalities by Q3 2013 San Juan – Information to be provided	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
38	Mode S radar implementation and update to Regional Plan on Surveillance Systems	Information on Mode S Radar implementation and updates to Regional Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	<p>E/CAR States shall inform on their plans for Mode S implementation.</p> <p>This information and other surveillance systems implementation shall be used to update the regional Plan on Surveillance System (CNS table 4A available on http://www.mexico.icao.int/CNS.html)</p>	<p>Trinidad and Tobago – Mode S</p> <p>Barbados – No Mode S</p> <p>Antigua – No Mode S</p> <p>San Juan – No Mode S</p> <p>France – No Mode S</p>	Valid

APPENDIX B
FOLLOW-UP TO VALID CONCLUSIONS FROM E/CAR/DCA/25 MEETING

Conclusion	Text	Follow-up	Status
CONCLUSION 25/3 E/CAR NATURAL DISASTER EMERGENCY PLAN	That the E/CAR SAR Committee, in coordination with E/CAR States, Territories, and International Organizations concerned, develop an E/CAR Natural Disaster Emergency Response Plan for submission to the ICAO NACC Regional Office by 30 June 2014, for distribution and approval by the Eastern Caribbean Directors of Civil Aviation through the fast track mechanism.	Coordinate with SAR Committee to review all possible contingencies to facilitate communications, navigation, and surveillance in the event of a natural disaster. These include acquisition of a mobile tower; establishing a dedicated communication line through the Multiprotocol Label Switching (MPLS) System; and acquiring satellite communications equipment to be strategically placed throughout the Eastern Caribbean	VALID
CONCLUSION 25/5 REQUEST FOR CPUs FROM FRANCE	That the respective E/CAR States/Territories request the donation of CPUs from France by 30 March 2014, using the form and procedures provided in the Appendix to this part of the report.	To be review on the Meeting	VALID

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