International Civil Aviation Organization
North American, Central American and Caribbean Office

WORKING PAPER

Sixth Eastern Caribbean Network Technical Group (E/CAR/NTG/6) and Fourth Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/4) Meetings
Miami, United States, 13 - 14 July 2015

Agenda Item 2: **Review of Valid Conclusions from E/CAR/NTG/05-RDS/03, E/CAR/CATG/01 and ECAR/DCA/25 Meetings related to the Work of the NTG and RD**
   2.2   Follow-up on E/CAR/CATG/01 and ECAR/DCA/25 Meetings

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, including the review done at the last E/CAR/NTG Meeting in 2014.	
Action:	The suggested actions are detailed in section 3
Strategic Objectives:	• Safety • Air Navigation Capacity and Efficiency
References:	• 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 • 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, French Antilles, France, 22 to 24 October 2014.

1.   Introduction

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, analyse 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.

1.4   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 were done in 2014 at the E/CAR/NTG/5 and E/CAR/RD/3 Meetings, and similarly with the E/CAR/DCA/25 conclusions Meeting.

2.   Discussion

2.1   From the E/CAR/NTG/5 and E/CAR/RD/3 Meetings (2014) the E/CAR States/territories 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.

2.2   While reviewing the E/CAR/CATG/01 and E/CAR/DCA/25 Meeting conclusions, the E/CAR/NTG/5 Meeting adopted decision:

DECISION
E/CAR/NTG/5/01   EVALUATION OF CONCLUSIONS AND IDENTIFICATION OF CONTRIBUTIONS FOR E/CAR/CATG AND E/CAR/DCA MEETINGS

> *That, in order to provide the timely support from the E/CAR/NTG and the E/CAR/RD on the valid conclusions related to the E/CAR AFS Network formulated by the E/CAR/CATG/01, E/CAR/DCA/25, ANI/WG/1 and NACC/WG meetings, France, United States and the E/CAR/NTG Rapporteur evaluate these conclusions and identify the possible contributions from the E/CAR/NTG and the E/CAR/RD to be reported to the 2015 E/CAR/CATG and E/CAR/DCA Meetings.*

2.3   A follow-up to E/CAR/CATG/01 and E/CAR/DCA/25 conclusions and the CNS Committee actions involving E/CAR/NTG and RD as shown in **Appendix A, B and C** to this paper.

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)   France, United States and the E/CAR/NTG Rapporteur to suggest any additional actions to track the completion of these conclusions; and

b)   take any other action as deemed necessary.

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FOLLOW-UP TO VALID CONCLUSIONS FROM E/CAR/CATG/1 MEETING INVOLVING FOLLOW-UP OF E/CAR/NTG AND E/CAR/RD

Conclusion	Text	Follow-up	Status
CONCLUSION 1/5 FOLLOW-UP TO AN-CONF/12 RECOMMENDATIONS	That in order to follow-up on implementation of Recommendations from the AN-Conf/12, the E/CAR/CATG: a) study the corresponding recommendations of the AN-Conf/12; b) initiate and propose follow-up actions to E/CAR States/Territories in coordination with the ANI/WG; c) update its work programme as required; and d) the progress of items a), b) and c) be reported to the E/CAR/DCA/25 Meeting.	No action needed from E/CAR/NTG -RD	Superseded by ANI/WG actions
CONCLUSION 1/13 OPERATIONAL ASSISTANCE FORARGYLE AIRPORT COMMISSIONING IN SAINT VINCENT AND THE GRENADINES	That considering that the new Argyle Airport will be commissioned in 2014: a) the PBN Task Force (PBNTF) carry out an operational evaluation of impact to regional operations aiming to provide assistance for the commissioning; b) Saint Vincent and the Grenadines and ECCAA keep the E/CAR/CATG informed on the implementation status of the Argyle Airport; and c) the PBNTF, Saint Vincent and the Grenadines and ECCAA report the results of a) and b) to the E/CAR/DCA/25 Meeting	To support this conclusion, the E/CAR/NTG-RD needs the specific communication and surveillance requirements for Argyle	Valid
CONCLUSION 1/22 IDENTIFICATION OF TRAINING NEEDS	That in order to support training preparation by the CAR Training Centres, the Committee Rapporteurs identify their respective training needs within the E/CAR and relay such information to the E/CAR/CATG Chairman for the upcoming Civil Aviation Training Centres Meeting of the CAR Region to be held at the ICAO NACC Regional Office, Mexico City, Mexico, from 27 to 30 August 2013.	Even though this is completed by time, any identification of training needs should be indicated and forward to the Civil Aviation Training Centres Group.	Completed
CONCLUSION 1/23 ACTIVE STATE SUPPORT FOR THE ICAO POSITION AT THE WRC-2015	That in order to ensure active support by States/Territories for the ICAO position at the WRC-15, for the protection of Aeronautical frequency spectrum and satisfy the future frequency spectrum needs of aviation E/CAR States: a) in preparing their proposals to the ITU WRC 15, include to the maximum extent possible, the ICAO position for WRC-2015; b) fully participate in the development of State positions to ensure support for the ICAO position at the WRC 15; c) include representatives of their civil aviation administrations and experts from aviation in their national delegations, to the extent possible, when participating in the ITU-R and regional preparatory activities for WRC 15; and d) ensure, to the extent possible, that delegations to the WRC 15 include representatives from their civil aviation administrations.	State are invited to consider actions of coordination for the last meeting of CITEL – see ANI/WG/02 corresponding conclusion	Superseded by NACC/WG/4 and ANI/WG/02 actions

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FOLLOW-UP TO VALID CONCLUSIONS FROM E/CAR/DCA/25 MEETING INVOLVING FOLLOW-UP OF E/CAR/NTG AND E/CAR/RD

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 followed-up in the Meeting	VALID

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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/CATG, 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 ICAO NACC website.		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 ICAO NACC website.		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	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
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 ICAO NACC website.	AMHS implementation will be carried out within all E/CAR AFS Network members	Valid
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

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
32	ADS-C/ CPDLC evaluation and trial Plans	Plan on ADS-C and CPDLC	States/ Territories coordinated by WG			Trinidad and Tobago to inform	Valid
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	E/CAR States shall inform on their plans for Mode S implementation. This information and other surveillance systems implementation shall be used to update the regional Plan on Surveillance System (CNS table 4 available on ICAO NACC website.	Trinidad and Tobago – Mode S Barbados – No Mode S Antigua – No Mode S San Juan – No Mode S France – No Mode S	Valid

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