



ICAO

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WORKING PAPER

E/CAR/NTG/9 & E/CAR/RD/7 — WP/02
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**Ninth Eastern Caribbean Network Technical Group (E/CAR/NTG/9) and
Seventh Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/7) Meetings**
On-line, 14 and 15 July 2020

- Agenda Item 2: Review of Valid Conclusions from E/CAR/NTG/8, E/CAR/RD/6, and ANI/WG/5 Meetings Related to the Work of the NTG and RD**
2.1 Follow-up on previous E/CAR/NTG-RD's Conclusions and Decisions

FOLLOW-UP ON PREVIOUS E/CAR/NTG-RD CONCLUSIONS AND DECISIONS

(Presented by the Rapporteur)

EXECUTIVE SUMMARY	
This paper examines the actions taken regarding the valid conclusions from previous E/CAR/NTG Meetings, as well as the conclusions and decisions formulated by the E/CAR/NTG/8, E/CAR/RD/6 and the ANI/WG/5 Meetings.	
Action:	Suggested actions are presented in Section 3.
Strategic Objectives:	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
References:	<ul style="list-style-type: none">• Eight Eastern Caribbean Network Technical Group (E/CAR/NTG/8) and Sixth Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD6) Meetings.• Fifth NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/5)

1. Introduction

1.1 The Eight Eastern Caribbean Network Technical Group (E/CAR/NTG/8) and Sixth Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/6) Meetings were held at the Grenada Airports Authority conference facility in Saint George's, Grenada, from 03 – 05 September 2018. The Meetings were attended by nine (9) States/Territories from the Eastern Caribbean, and representatives of three (3) Industry members, totalling 30 delegates.

1.2 The E/CAR/NTG/8-RD/6 Meetings reviewed the valid conclusions and decisions from the previous E/CAR/NTG meetings and concluded that all conclusions and decisions were considered completed or superseded

1.3 As result of the meeting deliberations, three (3) conclusions were formulated.

2. Discussion

2.1 The follow-up to the E/CAR/NTG & E/CAR/RD and related conclusions from ANI/WG/5 valid conclusions/decisions are presented in **Appendices A** and **B** respectively to this paper.

3. Suggested actions

3.1 The Meeting is invited to:

- a) review the actions taken and report on the valid E/CAR/NTG and E/CAR/RD conclusions and decisions; and
- b) agree to any other actions as deemed appropriate.

APPENDIX A

**FOLLOW UP TO CONCLUSIONS AND DECISIONS - EIGHT EASTERN CARIBBEAN NETWORK TECHNICAL GROUP MEETING (E/CAR/NTG/8)
AND SIXTH EASTERN CARIBBEAN RADAR DATA SHARING ADHOC GROUP MEETING (E/CAR/RD/6)**

Conclusion/Decision	Description	Follow-up	Status
<p>CONCLUSION E/CAR/NTG/8 – E/CAR/RD/6/01 UPDATE SURVEILLANCE INFRASTRUCTURE OF EASTERN CARIBBEAN</p>	<p>That, Bearing in mind that it is necessary for States to provide information on the technical characteristics of their surveillance infra-structure, the States agreed to:</p> <ol style="list-style-type: none"> 1) Integrate all the technical information and capacity of your surveillance systems (Provider, Model, Protocols, etc.), according to Table A of Appendix A. 2) Promote with this information the activities of radar data sharing among the States that its technical capacity allows it. 3) Integrate into your development plans the necessary requirements for new projects to come, integrate these capabilities. 		Closed
<p>CONCLUSION E/CAR/NTG/8 – E/CAR/RD/6/2 SUPPORT EASTERN CARIBBEAN STATES IN THE DEVELOPMENT OF THEIR IMPLEMENTATION PLANS</p>	<p>That, The Eastern Caribbean States require the support of the States for the development of aviation projects that support air traffic control activities. Developing the second phase of the radar presentation project is a necessity, since this will promote the operational safety of the region and improve situational awareness. States were agreed that:</p> <ol style="list-style-type: none"> a) It is necessary that ICAO support the Second phase of the radar data implementation project. b) Trinidad and Tobago support this project in all possible ways, since it promotes safety in the 		Closed

Conclusion/Decision	Description	Follow-up	Status
	<p>PIARCO region.</p> <p>In that sense, ICAO will provide an approach between the different Eastern Caribbean states, before March 2019.</p>		
<p>CONCLUSION E/CAR/NTG/8 – E/CAR/RD/6/3 RADAR DATA DISPLAY PROJECT PHASE II</p>	<p>That, The NTG Rapporteur in coordination with ECCAA, France, Trinidad and Tobago and the United States revise the operational requirements and contact ICAO TCB for an estimate of the project based on the defined user requirements by 31 January 2019.</p>		Superseded
<p>DECISION E/CAR/NTG/7-RD/5/3 CYBER SECURITY VULNERABILITY ASSESSMENT</p>	<p>That, Due to the increased number of cyber-attacks on systems, in order to increase the reliability of the nodes and the network, ECCAA, Barbados, Trinidad and Tobago, United States and France conduct a cyber-security vulnerability assessment on the E/CAR AFS Network by the E/CAR/NTG/8 Meeting.</p>	ECCAA, Barbados, Trinidad and Tobago, United States and France	Valid
<p>CONCLUSION E/CAR/NTG/7-RD/5/4 REVISION OF LETTERS OF AGREEMENT</p>	<p>That, In order to formalize the radar data sharing activities and foster the regional E/CAR ATFM initiative, France and Barbados review their existing LOAs to include the authorization to Trinidad and Tobago to exchange the Multi Radar Tracker (MRT), including any surveillance type feeds with Eastern Caribbean and Caribbean States under the intent of the E/CAR/RD project; and the FAA as part of the ATFM initiative.</p>	The Trinidad and Tobago Civil Aviation Authority and the Service de la Navigation Aerienne Antilles Guyane reviewed and updated the Letter of Agreement regarding remoting and use of radar data from Martinique and Guadeloupe ATS Units to the Piarco ATS Unit for ATFM.	Valid – BGI/T&T LOA to be amended
<p>CONCLUSION E/CAR/NTG/7-RD/5/5</p>	<p>That, in order to continue the Trinidad and Tobago - Venezuela Radar Exchange activities, that the ICAO NACC</p>	T&T wishes to defer this matter to a future date.	Deferred

Conclusion/Decision	Description	Follow-up	Status
REACTIVATION OF TRINIDAD AND TOBAGO - VENEZUELA RADAR EXCHANGE	Office in coordination with the SAM Office to contact Venezuela for the reestablishment of the coordination activities with Venezuela for this purposes by 30 December 2016		
CONCLUSION E/CAR/NTG/7-RD/5/6 TRINIDAD AND TOBAGO - GUYANA RADAR EXCHANGE	That, in order to share surveillance data in benefit of improving the accuracy and precision of the surveillance data, Trinidad and Tobago to: <ul style="list-style-type: none"> a) Coordinate a meeting with Guyana for this purposes by 30 December 2016; and b) Inform the ECAR/NTG/8 Meeting of this progress. 	T&T wishes to defer this matter to a future date.	Deferred
CONCLUSION E/CAR/NTG/7-RD/5/7 ANTIGUA RADAR DATA	That, in order to ensure the appropriate planning and coordination for testing and integrating the radar data from the Antigua Radar into the E/CAR MRT data, that ECCAA/ Antigua to provide by 30 December 2016 the details planning (timelines and actions), technical information (radar data format, circuit speed, etc.) from the radar in Antigua.		Valid
DECISION E/CAR/NTG/7-RD/5/8 INTEGRATION OF BARBADOS SURVEILLANCE DATA INTO THE PIARCO MRT AND EXCHANGE OF PIARCO MRT WITH BARBADOS	That, in order to plan and timely coordinate the integration of the Barbados surveillance data into the MRT System, Trinidad and Tobago and Barbados work together to coordinate by 30 December 2016: <ul style="list-style-type: none"> a) the integration of the Piarco MRT at Barbados during the next planned visit of the ATM vendor (Leonardo). b) the integration of the Barbados surveillance (radar/ADS-B/MLAT) into the Piarco MRT. 	BGI ADS_B already available at the Piarco MRT. Leonardo has some minor outstanding work to transfer the BGI radar data	(a) Closed (b) Closed
CONCLUSION	That, in order to prepare the E/CAR Region and take	(a) Barbados to report. The T&T project under discussion.	Valid

Conclusion/Decision	Description	Follow-up	Status
E/CAR/NTG/7-RD/5/9 ADS-B OUT IMPLEMENTATION IN THE E/CAR REGION	advantage of the operational benefits of ADS-B out: <ol style="list-style-type: none"> a) France, Barbados and Trinidad and Tobago to provide the E/CAR/NTG and ICAO their theoretical surveillance coverages (by flight levels 100, 150, 200 and 250) from their planned ADS-B Stations by 30 December 2016; b) E/CAR States and Territories inform the NTG and ICAO by 30 December 2016 of new plans for ADS-B implementation activities; c) E/CAR/NTG Rapporteur coordinate with the ANI/WG ADS-B TF Rapporteur for aligning the different E/CAR ADS-B activities with the regional ADS-B plan and implementation by February 2017; and d) E/CAR/NTG-RD Rapporteur to update the surveillance plan and inform the E/CAR/NTG/8 Meeting of these progress. 	(b) To be discussed under Agenda Item 4 (c) Closed (d) Valid	
CONCLUSION E/CAR/NTG/7-RD/5/10 SURVEILLANCE DATA REQUIREMENTS FOR DOMINICA AND ST. VINCENT	That, ECCAA inform the E/CAR/NTG Rapporteur of the surveillance data requirements for Dominica and St. Vincent by November 30, 2016.		Valid
CONCLUSION E/CAR/NTG/7-RD/5/11 SURVEILLANCE DATA REQUIREMENTS FOR ANGUILLA AND MONTSERRAT	That, <ol style="list-style-type: none"> a) E/CAR/NTG Rapporteur send a letter to Anguilla and Montserrat requesting information on whether they wish to be part of Phase II and to confirm if their requirement will be situational awareness; and b) ICAO to write to ASSI regarding their commitment to part of Phase II and the agreed procurement process. 	a) Email sent to Air Safety Support International (ASSI). b) ICAO to report	Valid
DECISION	That, in order to update the activities and agreements	To be discussed under Agenda	Valid

Conclusion/Decision	Description	Follow-up	Status
E/CAR/NTG/7-RD/5/12 DEFINITION OF RADAR DATA DISPLAY PHASE II PROCESS	for Phase II of the Radar Data Sharing, the E/CAR/NTG Rapporteur, by 30 December 2016, in coordination with the RFP ad-hoc Group inform of the Planning to be implemented for the E/CAR Radar Data Display Phase II Process.	Item 4.	
CONCLUSION E/CAR/NTG/7-RD/5/13 PROJECT PROPOSAL FOR ECAR REGION UNDER ICAO NACC NCLB	That, in order to seek the possible for funds and resources for the Radar Data Sharing Phase II Project or the regional Surveillance improvements with ADS-B States, the E/CAR/NTG Rapporteur work with the NTG Members for formulating a Project Proposal by February 2017.	Superseded	Superseded

APPENDIX B

FOLLOW UP TO CONCLUSIONS AND DECISIONS - FIFTH NAM/CAR AIR NAVIGATION IMPLEMENTATION WORKING GROUP MEETING (ANI/WG/5)

Conclusion/Decision	Description	Follow-up	Status
<p>CONCLUSION ANI/WG/5/06 PROCESS OF IMPLEMENTING THE ADS-B</p>	<p>That, States which are in the process of implementing the ADS-B according to the regional goal of 1 January 2020</p> <ul style="list-style-type: none"> a) Publish its regulation by 30 October 2019; and b) States that have not yet done so conduct an analysis on how their operations may be affected by the implementation of the ADS-B in the adjacent States and that they take the necessary measures to carry out actions that may be required by 31 December 2019. 		Valid
<p>CONCLUSION ANI/WG/5/12 XML TESTS ON THE AMHS SYSTEMS PLATFORM</p>	<p>That, in order to test the XML capacity of the regional networks CAR, Cuba, the United States, the Dominican Republic, Trinidad and Tobago and COCESNA coordinate XML tests. For this purpose, the following activities are carried out:</p> <p>About AMHS reporting its progress by 30 December 2019</p> <ul style="list-style-type: none"> a) An Ad-hoc Group composed of the States and Organizations mentioned above is created and is led by Cuba by 30 December 2019. b) That the Ad-Hoc Group be part of MEVA/TMG by 30 December 2019 c) That the results of the tests be reported to the States by 30 December 2019. 		Valid