



ICAO

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North American, Central American and Caribbean Office

WORKING PAPER

E/CAR/NTG/10 & E/CAR/RD/8 — WP/02

24/08/21

**Tenth Eastern Caribbean Network Technical Group and Eighth Eastern Caribbean Radar Data Sharing
Ad hoc Group Meetings (E/CAR/NTG/10 & E/CAR/RD/8)**

Online, 6 to 7 September 2021

Agenda Item 2: Review of Valid Conclusions from E/CAR/NTG/9 and E/CAR/RD/7 Meetings
2.1 Follow-up on previous E/CAR/NTG and E/CAR/RD's Conclusions and Decisions

**ACTIONS TAKEN REGARDING VALID CONCLUSIONS FROM PREVIOUS E/CAR/NTG MEETINGS AND
CONCLUSIONS AND DECISIONS FORMULATED BY THE E/CAR/NTG/9 AND E/CAR/RD/7**

(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/9, E/CAR/RD/7.	
Action:	Suggested actions are presented in Section 3.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Economic Development of Air Transport• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• Final Report E/CAR/NTG/09 & E/CR/RD/7

1. Introduction

1.1 The Ninth Eastern Caribbean Network Technical Group and Seventh Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/NTG/9 & E/CAR/RD/7) Meetings were held virtually on 14-15 July 2020. The Meetings were attended by ten (10) States/Territories, two (2) International Organizations and four (4) industry vendors with total participation of forty seven (47) delegates.

2. Discussion

2.1 The follow-up to the E/CAR/NTG & E/CAR/RD valid conclusions/decisions are presented in the **Appendix** 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

FOLLOW UP TO CONCLUSIONS AND DECISIONS - NINTH EASTERN CARIBBEAN NETWORK TECHNICAL GROUP AND SEVENTH EASTERN CARIBBEAN RADAR DATA SHARING ADHOC GROUP MEETING (E/CAR/NTG/9 & E/CAR/RD/7)

Conclusion/Decision	Description	Follow-up	Status
CONCLUSION E/CAR/NTG/9 & E/CAR/RD/7/01 REGIONAL AVIATION CAPACITY AND INFRASTRUCTURE INTEGRATION	That, in order to promote the aviation development of the Eastern Caribbean States it is necessary to integrate the regional aviation capacity and infrastructure, the E/CAR States and Territories update: <ul style="list-style-type: none"> a) the CNS capacity of their air aviation system; and b) or create their air navigation plan according to the new requirements of the Global Air Navigation Plan (GANP) by 15 December 2020. 		Valid
CONCLUSION E/CAR/NTG/9 & E/CAR/RD/7/02 INCREASE THE RELIABILITY OF THE NODES AND THE NETWORK	That, due to the increased number of cyberattacks on aeronautical systems like the E/CAR Network, and in order to increase the reliability of the E/CAR network and its nodes, Eastern Caribbean States/ Territories: <ul style="list-style-type: none"> a) join the activities and action plan led by the ICAO NACC Regional Office for cybersecurity assessment in the E/CAR States; and b) designate a point of contact to coordinate the different State activities for this action Plan by 30 September 2020. 		Valid
CONCLUSION E/CAR/NTG/9 & E/CAR/RD/7/03	That, in order to review and update the electronic Air Navigation Plan Volumes I and II, Eastern Caribbean		Valid

Conclusion/Decision	Description	Follow-up	Status
REVIEW OF THE DIGITAL REGIONAL AIR NAVIGATION PLAN (E-ANP) CAR/SAM TO ENSURE UPDATED INFORMATION ON INFRASTRUCTURE	States/ Territories, in coordination with the ICAO NACC Regional Office, review the eANP CAR/SAM Volume I and Volume II to ensure updated information on CNS infrastructure and services indicated in these documents by 30 December 2020.		
<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. 		Completed
<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. 		Valid

Conclusion/Decision	Description	Follow-up	Status
	<p>b) Trinidad and Tobago support this project in all possible ways, since it promotes safety in the PIARCO region.</p> <p>c) In that sense, ICAO will provide an approach between the different Eastern Caribbean states, before March 2019.</p>		
<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>	<p>ECCAA, Barbados, Trinidad and Tobago, United States and France</p>	<p>Valid</p>
<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>	<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.</p>	<p>Valid – BGI/T&T LOA to be amended</p>
<p>CONCLUSION E/CAR/NTG/7-RD/5/7 ANTIGUA RADAR DATA</p>	<p>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.</p>	<p>Antigua will be implementing a new surveillance in 2021/2022. It should be possible to integrate this data.</p>	<p>Valid</p>

Conclusion/Decision	Description	Follow-up	Status
<p>CONCLUSION E/CAR/NTG/7-RD/5/9 ADS-B OUT IMPLEMENTATION IN THE E/CAR REGION</p>	<p>That, in order to prepare the E/CAR Region and take advantage of the operational benefits of ADS-B out:</p> <ul 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. 	<ul style="list-style-type: none"> (a) Closed (b) To be discussed under Agenda Item 4 (c) Closed (d) Closed 	<p>(b) Valid</p>
<p>CONCLUSION E/CAR/NTG/7-RD/5/10 SURVEILLANCE DATA REQUIREMENTS FOR DOMINICA AND ST. VINCENT</p>	<p>That, ECCAA inform the E/CAR/NTG Rapporteur of the surveillance data requirements for Dominica and St. Vincent by November 30, 2016.</p>	<p>Dominica and St. Vincent indicated their interest in situational awareness.</p>	<p>Closed</p>
<p>CONCLUSION E/CAR/NTG/7-RD/5/11 SURVEILLANCE DATA REQUIREMENTS FOR ANGUILLA AND MONTSERRAT</p>	<p>That,</p> <ul 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. 	<ul style="list-style-type: none"> a) Email sent to Air Safety Support International (ASSI). b) ICAO to report 	<p>Valid</p>

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Conclusion/Decision	Description	Follow-up	Status
DECISION E/CAR/NTG/7-RD/5/12 DEFINITION OF RADAR DATA DISPLAY PHASE II PROCESS	That, in order to update the activities and agreements 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.	To be discussed under Agenda Item 4.	Valid

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