



ICAO

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

WORKING PAPER

E/CAR/NTG/8 & E/CAR/RD/6 — WP/02
17/08/18

**Eighth Eastern Caribbean Network Technical Group (E/CAR/NTG/8) and
Sixth Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/6)**
Saint George's, Grenada, 3 - 5 September 2018

**Agenda Item 2: Review of Valid Conclusions from E/CAR/NTG/7, E/CAR/RD/5, and
NACC/WG/5 Meetings Related to the Work of the NTG and RD**
2.1 Follow-up on valid E/CAR/NTG-RD Conclusions and Decisions

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

(Presented by E/CAR/NTG 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/7 and E/CAR/RD/5 Meetings	
Action:	The 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">• Seventh Eastern Caribbean Network Technical Group (E/CAR/NTG/7) and Fifth Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD5) Meetings.

1. Introduction

1.1 The Seventh Eastern Caribbean Network Technical Group (E/CAR/NTG/7) and Fifth Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/5) meetings were held at the Ocean Terrace Inn Hotel and Resort in Basseterre, St. Kitts and Nevis, from 17 to 18 October 2016. The Meeting was attended by nine (9) States/Territories from the Eastern Caribbean and one (1) International Organization totalling twenty two (22) delegates.

1.2 The E/CAR/NTG/7-RD/5 Meeting 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from the previous E/CAR/NTG meetings and concluded that all conclusions and decisions were considered completed or superseded and noted that the Standard Operations Procedures (SOP) have already been integrated into local documentation or into Letters of Agreement (for instance between Martinique and Trinidad or Martinique and Saint Lucia). Each State was invited to verify the validity of PSTN numbers identified as backup phone medium and to upgrade existing LoA accordingly.

1.3 As result of the meeting deliberations, ten (10) conclusions and three (3) decisions were formulated.

2. Discussion

2.1 The follow-up to E/CAR/NTG and E/CAR/RD valid conclusions/decisions are presented in **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 any other actions as deemed appropriate.

FOLLOW UP TO CONCLUSIONS AND DECISIONS - SEVENTH EASTERN CARIBBEAN NETWORK TECHNICAL GROUP MEETING (E/CAR/NTG/7) AND FIFTH EASTERN CARIBBEAN RADAR DATA SHARING ADHOC GROUP MEETING (E/CAR/RD/5)

Conclusion/Decision	Description	Follow-up	Status
DECISION E/CAR/NTG/7-RD/5/1 ROUTER AUTOMATIC CHANGEOVER CAPABILITY	That, in order to increase the reliability of the nodes and the network, TSTT analyze the feasibility and cost-effectiveness of implementing automatic changeover feature in the CISCO Routers by the E/CAR/NTG/8 Meeting.	TSTT has provided a proposal to the TTCAA to implement automatic changeover as part of the upgrade of the E/CAR AFS Network.	Valid
CONCLUSION E/CAR/NTG/07-RD/5/2 REPLACEMENT OF AFS NETWORK NODE REDUNDANCY IN GUADELOUPE	That, in order to restore the node redundancy for the replacement of the failed equipment in Guadeloupe: a) Trinidad and Tobago submit the cost of the replacement by December 15, 2016; and b) France report by 30 January 2017 , on the actions taken to conduct this replacement.	a) The cost of replacement was submitted to Guadeloupe but after discussions with TSTT, the replacement router was covered under the Cisco Smartnet agreement. b) The replacement router was sent in May 2017 and installed by Guadeloupe.	Completed
DECISION E/CAR/NTG/7-RD/5/3 CYBER SECURITY VULNERABILITY ASSESSMENT	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.	ECCAA, Barbados, Trinidad and Tobago, United States and France to report.	Valid
CONCLUSION E/CAR/NTG/7-RD/5/4 REVISION OF LETTERS OF AGREEMENT	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.	The Trinidad and Tobago Civil Aviation Authority and the Service de la Navigation Aerienn 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. Barbados to report	Valid

Conclusion/Decision	Description	Follow-up	Status
CONCLUSION E/CAR/NTG/7-RD/5/5 REACTIVATION OF TRINIDAD AND TOBAGO - VENEZUELA RADAR EXCHANGE	That, in order to continue the Trinidad and Tobago - Venezuela Radar Exchange activities, that the ICAO NACC 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	ICAO to report	Valid
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. 	No progress has been made with the coordinating of a meeting.	Valid
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.	Antigua to report	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. 	Barbados to report	Valid
CONCLUSION E/CAR/NTG/7-RD/5/9 ADS-B OUT IMPLEMENTATION IN THE E/CAR REGION	That, in order to prepare the E/CAR Region and take advantage of the operational benefits of ADS-B out: <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 	Barbados and France to report. <ul style="list-style-type: none"> a) An ADS-B project has been approved for Trinidad and Tobago. The theoretical surveillance coverage 	Valid

Conclusion/Decision	Description	Follow-up	Status
	<p>their planned ADS-B Stations by 30 December 2016;</p> <p>b) E/CAR States and Territories inform the NTG and ICAO by 30 December 2016 of new plans for ADS-B implementation activities;</p> <p>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</p> <p>d) E/CAR/NTG-RD Rapporteur to update the surveillance plan and inform the E/CAR/NTG/8 Meeting of these progress.</p>	<p>information is yet available.</p> <p>b) Papers to be presented under Agenda Item 4.</p> <p>c) To be discussed at the ANI/WG/4 meeting in August 2018.</p> <p>d) To be presented under Agenda Item 5.</p>	
<p>CONCLUSION E/CAR/NTG/7-RD/5/10</p> <p>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>ECCAA to report.</p>	<p>Valid</p>
<p>CONCLUSION E/CAR/NTG/7-RD/5/11</p> <p>SURVEILLANCE DATA REQUIREMENTS FOR ANGUILLA AND MONTSERRAT</p>	<p>That,</p> <p>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</p> <p>b) ICAO to write to ASSI regarding their commitment to part of Phase II and the agreed procurement process.</p>	<p>a) Email sent to Air Safety Support International (ASSI).</p> <p>b) ICAO to report</p>	<p>Valid</p>
<p>DECISION E/CAR/NTG/7-RD/5/12</p> <p>DEFINITION OF RADAR DATA DISPLAY PHASE II PROCESS</p>	<p>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.</p>	<p>To be discussed under Agenda Item 5.</p>	<p>Valid</p>
<p>CONCLUSION E/CAR/NTG/7-RD/5/13</p> <p>PROJECT PROPOSAL FOR ECAR REGION UNDER ICAO NACC NCLB</p>	<p>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 States, the E/CAR/NTG Rapporteur work with the NTG Members for formulating a Project Proposal by February 2017.</p>	<p>Superseded</p>	<p>Superseded</p>

— END —