



ICAO

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

INFORMATION PAPER

NACC/WG/4 — IP/20
03/03/14

**Fourth North American, Central American and Caribbean Working Group Meeting
(NACC/WG/4)**

Ottawa, Canada, 24 to 28 March 2014

**Agenda Item 3: Follow-up on the NAM/CAR Regional Performance-Based Air Navigation
Implementation Plan (NAM/CAR RPBANIP) Progress
3.3 ANI/WG and other regional group progress reports**

**PROGRESS REPORT OF THE ECAR/NTG: E/CAR AFS :NETWORK IMPROVEMENTS AND
RADAR DATA SHARING IMPLEMENTATION**

(Presented by E/CAR/NTG Rapporteur)

EXECUTIVE SUMMARY	
This Working Paper presents the results of the Fourth Eastern Caribbean Network Technical Group and the Second Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/2) Meetings and provides an update on the performance of the Eastern Caribbean (E/CAR) Aeronautical Fixed Services (AFS) Network.	
<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">• 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• First Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/1), Martinique, French Antilles, France, 19 - 21 June 2013• Fourth Eastern Caribbean Network Technical Group Meeting (E/CAR/NTG/4) and the Second Eastern Caribbean Radar Data Sharing Adhoc Group (E/CAR/RD/2) Meetings, Martinique, French Antilles, France, 17 - 18 June 2013)

1. Introduction

1.1 The Fourth Meeting of the Eastern Caribbean Network Technical Group (E/CAR/NTG/4) and the Second Eastern Caribbean Radar Data Sharing Adhoc Group Meeting (E/CAR/RD/2) were carried out in Martinique, France from 17 - 18 June 2013. The meeting was attended by twenty nine (29) participants from seven (7) E/CAR States/Territories (Antigua and Barbuda, Barbados, Dominica, France, Saint Lucia, Trinidad & Tobago, United States), ECCAA in representation of the OECS States, ICAO and the E/CAR AFS Network Service Provider (TSTT).

1.2 These meetings held together, discussed four Agenda Items and subsequently formulated twelve (12) draft Conclusions and four (4) Decisions, covering the two main subjects assigned by the E/CAR DCA regarding the E/CAR AFS Network performance and the E/CAR Radar Data Sharing implementation activities.

2. Discussion

2.1 Under Agenda Item 1 the Meeting reviewed the valid conclusions from the previous E/CAR/NTG meetings: C2/1, C2/3, C2/5, C2/9, C/3/1 and decision D3/2. The Meeting concluded that all these conclusions were completed and C2/1 superseded. From the analysis of the E/CAR/WG/33 and E/CAR/DCA/24 Meetings, the following conclusions are considered related to the E/CAR AFS Network:

- E/CAR/WG/33 Meeting: C/33/3 and C/33/8 and
- E/CAR/DCA/24 Meeting: C24/2 and C24/3

E/CAR AFS Network performance

2.2 A review of the E/CAR Network performance was made highlighting the following agreements and updates:

- a) The installation and commissioning of an Uninterrupted Power System (UPS) in Dominica commissioned to eliminate the power fluctuations.
- b) Damage to AFS equipment resulting from environmental negligence:
 - Anguilla - a UPS and a Cisco router
 - St. Kitts – a Cisco router

2.3 The Piarco-Martinique, Martinique-Guadeloupe and the Guadeloupe-Antigua International Private Leased Circuits (IPLCs) IPLCs were implemented. The implementation of the last leg: Guadeloupe-Antigua in March 2013 completed the initial design of the E/CAR AFS network as agreed by the E/CAR/NTG membership.

2.4 The Service Level Agreement maintenance procedures were reviewed in terms of initial feedback on fault, identification and isolation of faults and escalation conditions. Network contingency was discussed in light of the importance of the E/CAR/AFS Network and the current and future applications to be supported by the Network.

2.5 The meeting reviewed the two projects undertaken by the TTCAA for the supply, installation and training of an Air Traffic Services Message Handling System (AMHS) and an Aeronautical Information Services System (AISS) and provided comments on the performance of same since the installation.

2.6 The United States informed the meeting with regards to the AMHS workshop/meeting which was hosted by the United States/FAA in coordination with ICAO in Miami, FL on 11-13 April 2012. The workshop provided participants with a forum to exchange experiences, guidance on implementation of AMHS as well as implementation activities and schedule updates.

2.7 The Meeting was informed of the E/CAR/NTG Rapporteur participation in the MEVA III RFI process in representation of the E/CAR AFS Network and the MEVA III RFP process and status. The MEVA TMG Rapporteur confirmed that the MEVA II – E/CAR AFS Network interconnection requirements have been included in the MEVA III Tender Package version 1.0 for the MEVA III Tender process.

E/CAR Radar Data Sharing implementation activities

2.8 The meeting was informed of the progress of the radar data sharing project, the infrastructure needed for radar data exchange and the offer made by France for their monoradars data to E/CAR States in addition to the Radar Data server in Trinidad and Tobago. The operational requirements were reviewed and ECCAA provided some operational requirements for providing Situational Awareness and recalled the information exchange for operational experiences in situational awareness being conducted between France, Saint Lucia and ECCAA. In this regard, several members of the Radar Data Sharing Adhoc Group expressed their commitment to move on with the implementation of the CPUs donated by France considering their geographical situation within the French radar coverage of Dakota radar data. These members committed to the acquisition of the necessary monitor for the CPU, local environmental conditions and wiring infrastructure for interconnectivity to the E/CAR AFS equipment. **Appendix A** shows the updated activities planned for the radar sharing project.

2.9 Under Agenda Item 4 the Meeting recognized that for 2014, due to the planned activities for the E/CAR AFS Network and Radar Data Sharing, a face-to-face three (3) days meeting would be needed in addition to regular teleconferences particularly to ensure the continuity and progress of the Radar data activities through the E/CAR AFS Network, therefore the meeting agreed that the E/CAR/NTG/5 meeting shall be carried out with the third radar data sharing Adhoc Group Meeting. France had tentatively informed to host this meeting. Among the subjects to be discussed in these meetings are:

- a) ECAR AFS Network improvements review
- b) Radar Data integration from Dacota, Trinidad and Barbados Radar
- c) Radar Display implementation from CPUs donated from France
- d) Radar Display Request for Information (RFI) outcomes
- e) Next activities in Radar Data exchange

2.10 In this regard, the Meeting agreed to request the support of the E/CAR DCAs for an E/CAR State/territory for hosting the next E/CAR/NTG/05 and III Radar Data Sharing Adhoc Group Meetings. This meeting will advise on the best feasible solution (Radar Display acquisition by individual States or as a whole Regional Project) for implementing radar data displays in the E/CAR Region.

2.11 The E/CAR/DCA/4 and 2nd Radar Data Sharing Ad-hoc Group Meetings report and conclusions were approved since 20 September 2013 by the E/CAR DCAs based on its submission by ICAO State Letter ref. EMX0566 dated 26 August 2013. In October 2013, a follow-up teleconference to these meetings was carried out highlighting the actions to be carried out by some E/CAR Members:

- a) Anguilla and Saint Kitts, as a matter of urgency contact Trinidad and Tobago to agree on the necessary actions to restore the node redundancy for the replacement of the faulted equipment;
- b) France and United States develop network contingency procedures for the E/CAR AFS Network;

- c) Antigua and Barbuda report the final status and planning for restoration of their radar system, including the necessary actions to start radar data sharing with Sint Maarten;
- d) France and Trinidad and Tobago complete the radar technical specifications update and with the assistance of ICAO, conduct a Request for Information for radar technical specifications to determine the best technical solution for radar data display for situational awareness considering the current radar requests;
- e) Trinidad and Tobago to arrange for implementation of the radar data feed to each corresponding node for operation of each radar display in order to facilitate the implementation of the Radar Data Displays based on the France provided CPUs; and
- f) Trinidad and Tobago to update the Radar Data Sharing Action Plan to include all actions and activities discussed and agreed at the E/CAR/NTG/04 Meeting in order to update the implementation activities of the Radar Data Sharing Action Plan.

2.12 **Appendix B** contains the follow-up to the valid conclusions and decisions.

2.13 In 16 October 2013, following the radar data sharing agreements, France with the support of ICAO, ref. State letter EMX0827, submitted the Procedure for Donation of CPUs for Radar Display particularly directed for those E/CAR area States that committed to implement the CPUs donated by France about the procedure to request these CPUs:

- Anguilla: 1 CPU
- Antigua and Barbuda: 2 CPUs for Antigua
- Barbados: 1 CPU
- Dominica: 1 CPU for Melville Hall
- Montserrat: 1 CPU
- Saint Kitts and Nevis: 1 CPU for Saint Kitts
- Grenada, and Saint Vincent and the Grenadines will also commit, pending the successful outcome of the monoradar radar data tests

2.14 The procurement process for the end user equipment is expected to begin after the compilation of the full tender package inclusive of commercial and technical requirements. This process is scheduled to begin in June 2014.

3. Suggested action

3.1 The meeting is invited to:

- a) Review the outcomes and progress achieved by the E/CAR/NTG and the E/CAR Radar Data Ad-hoc Group contained in this working paper and Appendix B;
 - b) Based on State/regional experience with radar Data sharing, identify improvement to the current Radar Data Displays scheduled activities;
 - c) Seek confirmation on the implementation of the Radar Display CPUs donated by France as detailed in paragraph 2.13; and
 - d) Identify any new tasks or progress on the tasks of the E/CAR/NTG and E/CAR/RD groups.
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APPENDIX A

ID	Task Name	Duration	Start	Finish	Predecessors	Responsible	Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	
							Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr
1																
2	✓ First meeting to discuss the project (E/CAR/WG/33)	1 day	Thu 6/7/12	Thu 6/7/12		CNS Com/ICAO	CNS Com/ICAO									
3	✓ Identify States that will be part of the project: Expression of interest	68 days	Fri 6/8/12	Mon 9/10/12			[Task Bar]									
4	✓ Identify the intended usage of the composite radar image	27 days	Wed 7/18/12	Wed 8/22/12		E/CAR Members	E/CAR Members									
5	✓ Identify number of displays and site of displays	1 day	Wed 7/18/12	Wed 7/18/12		E/CAR Members	E/CAR Members									
6	✓ 1st Radar teleconference	1 day	Wed 7/18/12	Wed 7/18/12		RDS Members/ICAO	RDS Members/ICAO									
7	✓ 2nd Radar teleconference	1 day	Wed 9/12/12	Wed 9/12/12		RDS Members/ICAO	RDS Members/ICAO									
8	✓ Develop test procedure, identify resources to conduct actual coverage checks	60 days	Sat 7/28/12	Thu 10/18/12		Trinidad and Tobago	Trinidad and Tobago									
9	✓ Coordinate tests with Grenada and St Vincent	30 days	Wed 8/1/12	Tue 9/11/12			[Task Bar]									
10	✓ Provide theoretical radar coverage (Barbados, French Antilles, Trinidad, Antigua, United States)	3 days	Tue 8/21/12	Thu 8/23/12		Barbados, French Antilles, Trinidad and Antigua, United States	Barbados, French Antilles, Trinidad and Antigua, United States									
11	✓ Combine the theoretical radar coverage into one composite image	20 days	Mon 9/3/12	Fri 9/28/12		Trinidad and Tobago	Trinidad and Tobago									
12	✓ Actual coverage checks with Grenada and St Vincent	3 days	Thu 9/20/12	Mon 9/24/12			[Task Bar]									
13	✓ Coordinate tests with States	5 days	Fri 10/19/12	Thu 10/25/12		Trinidad and Antigua	Trinidad and Antigua									

Project: ECAR RADAR DATA PROJE
Date: Fri 3/14/14

Task		External Tasks		Manual Task		Finish-only	
Split		External Milestone		Duration-only		Deadline	
Milestone		Inactive Task		Manual Summary Rollup		Progress	
Summary		Inactive Milestone		Manual Summary			
Project Summary		Inactive Summary		Start-only			

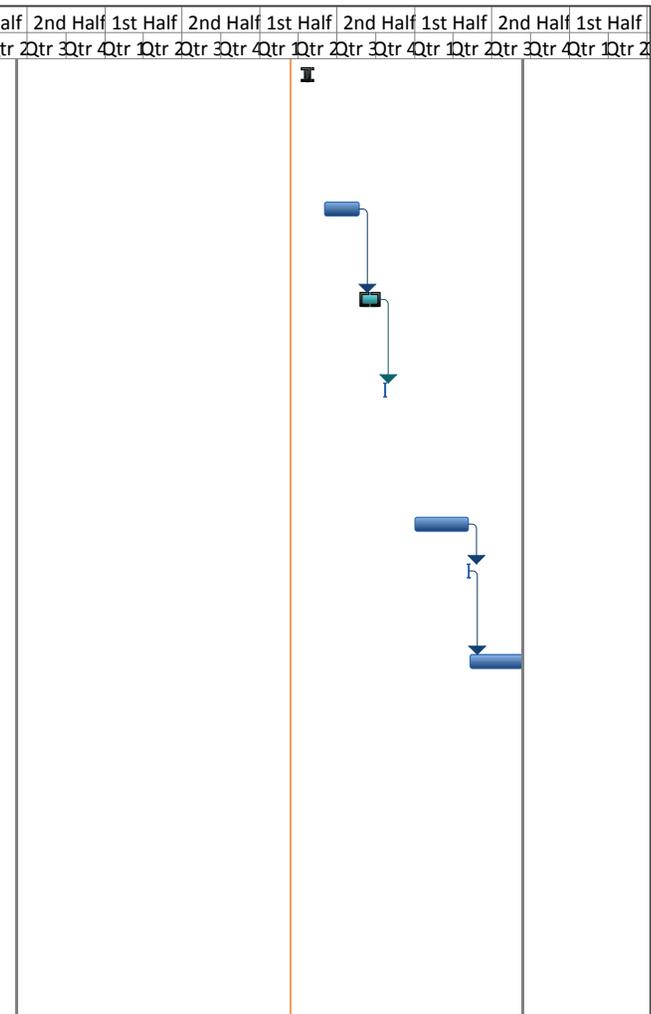
ID	Task Name	Duration	Start	Finish	Predecessors	Responsible	Half	2nd Half	1st Half	2nd Half								
							Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr
14	✓ Analyze network against the need for additional hardware/configuration, if any	120 days	Fri 6/15/12	Wed 11/28/12		Trinidad and Antigua/ECARNTG												
15	✓ Make recommendations to E/CAR/DCA/24 on Radar Data Sharing Project- implementation and procurement	3 days	Tue 10/2/12	Thu 10/4/12		CNS Com Rapporteur												
16	Have Barbados Radar in Trinidad	180 days	Thu 3/28/13	Wed 12/4/13														
17	Develop technical specifications needed to implement the radar display for situational awareness.	320 days	Thu 1/10/13	Tue 4/1/14		Ad-Hoc Group/ICAO												
18	Send Piarco's MRT to Martinique- recorded data only	183 days	Wed 4/10/13	Fri 12/20/13														
19	Conduct actual coverage checks with Antigua, Dominica, Montserrat, St. Kitts, St. Lucia	15 days	Mon 6/17/13	Fri 7/5/13														
20	Integrate Barbados radar into Piarco's MRT	24 days	Mon 1/20/14	Thu 2/20/14														
21	Trials to determine whether the composite image can be displayed on the displays available by French Antilles (recorded data)	27 days	Thu 4/11/13	Fri 5/17/13														

Project: ECAR RADAR DATA PROJE Date: Fri 3/14/14	Task		External Tasks		Manual Task		Finish-only	
	Split		External Milestone		Duration-only		Deadline	
	Milestone		Inactive Task		Manual Summary Rollup		Progress	
	Summary		Inactive Milestone		Manual Summary			
	Project Summary		Inactive Summary		Start-only			

ID	Task Name	Duration	Start	Finish	Predecessors	Responsible	Half	2nd Half	1st Half						
							Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr
22	3rd Radar Teleconference: Present findings to radar sharing group	1 day	Fri 3/15/13	Fri 3/15/13					I						
23	4th Radar Sharing Teleconference	1 day	Tue 5/21/13	Tue 5/21/13					I						
24	Acquisition of new Radar Data Displays														
25	Draft specifications for review by ICAO, ECCAA, France and Trinidad and Tobago	1 day	Fri 1/10/14	Fri 1/10/14						I					
26	E/CAR/RD/2 Meeting	1 day	Tue 6/18/13	Tue 6/18/13					I						
27	5th Radar Sharing Teleconference	1 day	Thu 6/27/13	Thu 6/27/13					I						
28	Finalize Procedure and conditions for IRMA2000 delivery to E/CAR States	22 days	Wed 10/2/13	Thu 10/31/13											
29	Visit to Martinique re: multicasting issues	2 days	Mon 11/11/13	Tue 11/12/13						I					
30	Set up Network to export Martinique's radar to Dominica	2 days	Mon 11/11/13	Tue 11/12/13						I					
31	Extend Martinique's radar to E/CAR AFS in addition to IPLCs	7 days	Tue 5/20/14	Wed 5/28/14											I

Project: ECAR RADAR DATA PROJE Date: Fri 3/14/14	Task		External Tasks		Manual Task		Finish-only	
	Split		External Milestone		Duration-only		Deadline	
	Milestone		Inactive Task		Manual Summary Rollup		Progress	
	Summary		Inactive Milestone		Manual Summary			
	Project Summary		Inactive Summary		Start-only			

ID	Task Name	Duration	Start	Finish	Predecessors	Responsible	Half	2nd Half	1st Half	2nd Half							
							Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr
32	Finalization of Committee members/Selection of Chairperson	10 days	Wed 4/16/14	Tue 4/29/14													
33	Request For Information from vendors	60 days	Mon 6/2/14	Fri 8/22/14													
34	Finalization of complete tender documents	35 days	Mon 8/25/14	Fri 10/10/14	33												
35	ECARNTG+RDS Meeting: Review RFI information and Tender process	2 days	Wed 10/22/14	Thu 10/23/14	34												
36	Tender Process	90 days	Thu 1/1/15	Wed 5/6/15													
37	Evaluation and selection of tender of Radar Displays	2 days	Thu 5/7/15	Fri 5/8/15	36												
38	Implementation	90 days	Mon 5/11/15	Fri 9/11/15	37												
39																	
40																	
41																	
42																	
43																	
44																	



Project: ECAR RADAR DATA PROJE Date: Fri 3/14/14	Task		External Tasks		Manual Task		Finish-only	
	Split		External Milestone		Duration-only		Deadline	
	Milestone		Inactive Task		Manual Summary Rollup		Progress	
	Summary		Inactive Milestone		Manual Summary			
	Project Summary		Inactive Summary		Start-only			

APPENDIX B
UPDATE OF CONCLUSIONS/DECISIONS FROM E/CAR/NTG/4 AND E/CAR/RD/2

CONCLUSION/ DECISION	BRIEF	DESCRIPTION	STATUS/ follow-up
Conclusion E/CAR/NTG/4/01:	Immediate Restoration of ECAR AFS Network Node Redundancy In St: Kitts And Anguilla	That Saint Kitts and Anguilla, as a matter of urgency, no later than 30 June 2013, to communicate with Trinidad and Tobago to agree on the necessary actions to restore the node redundancy for the replacement of the failed equipment.	VALID: Proposals were obtained from TSTT and sent to: St. Kitts – router Anguilla – router and UPS Damaged due to environmental conditions. Both States have acknowledged receiving the proposals. ICAO sent this request to the states regarding this matter. St. Kitts and Anguilla to respond.
Conclusion E/CAR/NTG/4/02	E/CAR AFS Network Standard Operations Procedures (SOP): MPLS Maintenance Procedure and Service Level of Agreement	a) E/CAR/NTG Rapporteur to draft and submit to E/CAR/NTG Members a E/CAR AFS Network Standard Operations Procedures (SOP) including all maintenance and necessary network operation procedures as well as the MPLS SLA by 30 September 2013 ; b) E/CAR/NTG members to provide comments on E/CAR AFS Network SOP by 31 October 2013 ; and c) E/CAR AFS Network members to apply E/CAR AFS Network Standard Operations Procedures (SOP) final version by 31 December 2013 .	VALID: The SOP from the FAA was received and reviewed by TSTT and TTCAA. Comments were received from France on a SOP for E/CAR AFS. Final SOP is to be presented at the next ECAR/NTG Meeting (2014)
Conclusion E/CAR/NTG/4/03	E/CAR AFS Network Availability improvement	In order to improve the E/CAR AFS network availability that: a) The E/CAR AFS Network Service Provider, TSTT, analyse and identify any issues that can improve availability figures per node and informs the E/CAR/NTG Rapporteur by September 30th 2013 and b) E/CAR AFS Members to be informed of the actions to be taken to improve the local node availability by the next teleconference (20 August 2013).	Completed a) TSTT reported to NTG Rapporteur that the following causes were identified that affected availability: Power failures and router failures. b) Commercial power is under the responsibility of the State. TSTT has improved coordination with the local support to improve response time in the event of router failures to switch to the standby router. E/CAR AFS Network availability improvement shall be reviewed at the next ECAR/NTG Meeting (2014)
Draft Conclusion E/CAR/NTG/4/04	E/CAR AFS Network Availability statistics	In order to improve the Network availability information reported and analysed by the E/CAR AFS Network members that the E/CAR AFS Network Service Provider, TSTT: a) To calculate the network availability per node discriminating the preventive maintenance downtime; b) To provide a bandwidth utilization graphic with individual node presentation; c) Include on these graphic updates a comparative approach with the previous Network report to identify improvements; and d) Submit the new information to the E/CAR AFS Members before the next teleconference (20 August 2013).	Completed a) Network availability can be viewed on the web portal. It excludes preventative time. b) Bandwidth utilization is provided on the web portal. c) Comparative updates will need to be done manually. This information can be provided at the monthly teleconferences. E/CAR AFS Network Availability statistics shall be reviewed at the next ECAR/NTG Meeting (2014)

CONCLUSION/ DECISION	BRIEF	DESCRIPTION	STATUS/ follow-up
Decision E/CAR/NTG/4/05	E/CAR AFS Network Contingency Procedures	That France and the United States develop network contingency procedures for the E/CAR AFS Network and present this document to the E/CAR/NTG/5 meeting.	VALID
Draft Conclusion E/CAR/NTG/4/06	Voice failures between Barbados and Martinique	That the E/CAR AFS Network Service Provider, TSST, reviews the dial plan and any activity needed to resolve the voice communications between Barbados and Martinique before 30 June 2013	Completed. This matter was successfully addressed on scheduled maintenance visit on October 28-29, 2013. Barbados and Martinique confirmed that voice circuits are operational.
Decision E/CAR/NTG/4/07	Antigua and Barbuda Radar Restoration	That Antigua and Barbuda reports no later than 30 September 2013, the final status and planning for the restoration of their radar system including the necessary actions to start radar data sharing with Sint Maarten.	Antigua reported that discussions are progressing with Selex regarding the replacement of faulty modules and the restoration of the radar.
Draft Conclusion E/CAR/NTG/4/08	Improvement to failure report description and feedback	Since Trinidad and Tobago is responsible for the operation and outcomes of the Top Desk application, that Trinidad and Tobago: a) Clearly identify the type of failure (application or network) in its responses on Top desk; b) Provide feedback to all failure reports; and c) Report these improvement to the next teleconference (20 August 2013)	Completed States reported that the Topdesk responses have improved. Performance will be reviewed at the next ECAR/NTG Meeting (2014)
Draft Conclusion E/CAR/NTG/4/09	ECCAA AFS Network procedure improvements	Since ECCAA is the CNS Service Provider for the OECS States and that a minimum maintenance level review is made before issuing a failure report, that: a) ECCAA to review and update their maintenance reporting procedure with their ECCAA Members by the end of July 2013; and b) Trinidad and Tobago to provide Dominica an online training for the use of the Top Desk application.	a) Completed b) Completed
Decision E/CAR/NTG/4/10	Review of Operational Guidance Material	That ECCAA in collaboration with France and Saint Lucia review the operational guidance material and present a final draft to the Radar Sharing Rapporteur no later than 31st July 2013.	VALID The draft Operational Guidance document was prepared and reviewed by ECCAA. The draft document is to be sent to St. Lucia after cross checking with Antigua. After this process it will be sent to the NTG. ECCAA to inform
Decision E/CAR/NTG/4/11	Submission of Procedure to Request CPU Donated by France	In order to facilitate the procedure for obtaining the CPUs donated by France, that France submits to the Rapporteur E/CAR/NTG and ICAO a template with the necessary requirements and conditions to formalize the request for these CPUs, including the required environmental conditions no later than 30th June 2013.	Completed Document prepared by France and reviewed by ICAO and NTG Rapporteur. ICAO sent the document to States for their comments and approval.

CONCLUSION/ DECISION	BRIEF	DESCRIPTION	STATUS/ follow-up
Draft Conclusion E/CAR/NTG/4/12	Implementation of Radar Data Displays with CPUs Provided by France	In order to facilitate the implementation of the Radar Data Displays based on the France provided CPUs, that: a) Trinidad and Tobago arrange the implementation of the radar data feed to each corresponding nodes for operation of each radar display no later than end of September 2013; b) Anguilla, Antigua and Barbuda, Dominica, Barbados, Montserrat and St. Kitts and Nevis proceed with the acquisition of the necessary monitor and local power conditioning requirement for the CPU by the end of September 2013; and c) All participants in action a) and b) to provide progress to the E/CAR/DCA/25 Meeting.	Valid The Piarco ATM System vendor is expected to be on site in March to resolve matters regarding the export of radar in multicast format.
Decision E/CAR/NTG/4/13	Radar Technical Specification Request for Information	In order to provide an accurate scenario for the implementation of the radar display for the medium-long term solution that France and Trinidad and Tobago: a) Complete the update of the radar technical specifications; b) assisted by ICAO, conduct a Request for information for the radar technical specifications for best technical solution for radar data display for situational awareness considering the current radar requests; and c) inform by the E/CAR/DCA/25 Meeting the progress and results of these actions.	Completed Technical specifications have been completed.
Decision E/CAR/NTG/4/14	Update to Radar Data Sharing Implementation Action Plan	In order to update the activities for the radar data sharing implementation action plan, that Trinidad and Tobago: a) update the Radar Data Sharing Action Plan including all the actions and activities discussed and agreed in the E/CAR/NTG/04 Meeting, in terms of long and short term solution actions, States/territories implementing the Radar Displays in Phase 1 and 2, etc.; b) present this update to the next Radar Data Sharing Adhoc Group teleconference in 20 August 2013 for approval; and c) present the final update to the E/CAR/DCA/25 Meeting.	VALID Awaiting the progress of the multicasting which will set the timeline for the other radar sharing activities.
Draft Conclusion E/CAR/NTG/4/15	Local Telecom Infrastructure	That the E/CAR States/territories implementing the Radar Displays in the short term solution, implement the necessary local telecommunications infrastructure to complete the connectivity of the circuits provided by the E/CAR AFS Network from the demarcation point of the E/CAR AFS network router.	Completed Information noted by States. Requirements to be supplied by TTCAA

CONCLUSION/ DECISION	BRIEF	DESCRIPTION	STATUS/ follow-up
Draft Conclusion E/CAR/NTG/4/16	<p>Hosting of the next E/CARNTG/05 and III Radar</p> <p>Data Sharing Adhoc Group Meetings</p>	<p>In order to conduct the next E/CAR/NTG/05 and III Radar Data Sharing Adhoc Group Meetings together to discuss and agree on the matters related to the expected improvements in the network performance, reporting and interconnection, as well as the result on radar data sharing activities, that the E/CAR/NTG Rapporteur prepares the necessary dissertation for the DCAs in the coming E/CAR/DCA/25 for requesting the States support for a host country for these meetings</p>	<p>Completed</p> <p>France to confirm offer to host the next ECAR/NTG/05 and III Radar Data Sharing Adhoc Group Meeting</p>