

International Civil Aviation Organization

North American, Central American and Caribbean Office (NACC)

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

Agenda Item 5: Air Navigation Matters

5.4 Review of the E/CAR Communications Network

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

(Presented by E/CAR/NTG Rapporteur)

SUMMARY

This working paper presents the results of the Fourth Eastern Caribbean Network Technical Group (E/CAR/NTG/4) 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.

References:

- First Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/1), Martinique, France, 19-21 June 2013
- Fourth Eastern Caribbean Network Technical Group Meeting (E/CAR/NTG/4) and the Second Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/2) Meetings, Martinique, France, 17-18 June 2013)
- Twenty-fourth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/24), Martinique, France, 2–5 October 2012
- E/CAR Radar Data Sharing (RDS) Teleconference October 2013

Strategic Objectives	This working paper is related to Strategic Objectives: A. Safety – Enhance Global Civil Aviation Safety B. Security – Enhance Global Civil Aviation Security					
	C. Environmental Protection and Sustainable Development of Air Transport					

1. Introduction

- 1.1 The E/CAR/NTG/4 and the E/CAR/RD/2 Meetings were held in Martinique, France, from 17 to18 June 2013. The meeting was attended by 29 participants from 7 E/CAR States/Territories (Antigua and Barbuda, Barbados, Dominica, France, Saint Lucia, Trinidad and Tobago and United States), ECCAA in representation of the OECS States, ICAO and the E/CAR AFS Network Service Provider (TSTT).
- 1.2 These meetings, held jointly, discussed 4 agenda items and subsequently formulated 12 draft Conclusions and 4 Decisions, covering the 2 main subjects assigned by the E/CAR DCA regarding 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 of these conclusions were completed and C2/1 was superseded. From the analysis of the Thirty-third Eastern Caribbean Working Group Meeting (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
 - 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 conducted, highlighting the following agreements and updates:
 - a) The installation and commissioning of an Uninterrupted Power System (UPS) in Dominica, commissioned to eliminate power fluctuations
 - b) Damage to AFS equipment resulting from environmental negligence:
 - Anguilla a UPS and a Cisco router
 - Saint Kitts a Cisco router
- 2.3 The Piarco-Martinique, Martinique-Guadeloupe and Guadeloupe-Antigua International Private Leased Circuits (IPLCs) were implemented. The implementation of the last leg: Guadeloupe-Antigua (March 2013) completed the initial design of the E/CAR AFS Network as agreed by the E/CAR/NTG.
- 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 Trinidad and Tobago on the supply, installation and training of an Air Traffic Services Message Handling System (AMHS), Aeronautical Information Services System (AISS), and provided comments on the performance of same since the installation.

- 2.6 United States informed on the AMHS Workshop/Meeting, hosted by United States, in coordination with ICAO, in Miami, United States, from 11 to 13 April 2012. The workshop was 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 Request for Information (RFI) process in representation of the E/CAR AFS Network and the MEVA III Request for Proposal (RFP) process and status. The MEVA Technical Management Group (TMG) Rappporteur confirmed that the MEVA II E/CAR AFS Network interconnection requirements had been included in the MEVA III Tender Package, version 1.0, for the MEVA III Tender process.

E/CAR Radar Data Sharing implementation activities

- 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 monoradar data to E/CAR States in addition to the radar data server in Trinidad and Tobago. The operational requirements were reviewed, and ECCAA provided operational requirements for 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 Ad hoc 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 acquire the necessary monitor for the CPU, local environmental conditions and wiring infrastructure for interconnectivity to the E/CAR AFS equipment. **Appendix A** shows the activities planned for the radar sharing project.
- 2.9 The Meeting also recognized that for 2014, due to the planned activities for the E/CAR AFS Network and radar data sharing, a 3-day face-to-face meeting would be needed in addition to regular teleconferences 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 held jointly with the third radar data sharing Ad hoc Group Meeting. Among the subjects to be discussed at these meetings are:
 - a) E/CAR AFS Network improvements review
 - b) Radar data integration from Dakota, Barbados and Trinidad radar
 - c) Radar display implementation from CPUs donated by France
 - d) Radar display 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 to host the next E/CAR/NTG/5 and III Radar Data Sharing Ad hoc Group meetings. These meetings (E/CAR/NTG/4 and E/CAR/RD/2) 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 area.
- 2.11 The E/CAR/NTG/4 and the E/CAR/RD/2 Meetings report and conclusions were approved on 20 September 2013, by the E/CAR DCAs. In October 2013, a follow-up teleconference to these meetings was held, highlighting the actions to be carried out by some E/CAR Members, viz:
 - a) Anguilla and Saint Kitts and Nevis, as a matter of urgency, should 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 should develop network contingency procedures for the E/CAR AFS Network;
- c) Antigua and Barbuda should report the final status and planning for restoration of its radar system, including the necessary actions to start radar data sharing with Sint Maarten;
- d) France and Trinidad and Tobago should complete the radar technical specifications update and, with the assistance of ICAO, conduct a RFI 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 should arrange for implementation of the radar data feed to each corresponding node for operation of each radar display in order to facilitate implementation of the radar data displays based on the CPUs provided by France; and
- f) Trinidad and Tobago should update the Radar Data Sharing Action Plan to include all actions and activities discussed and agreed at the E/CAR/NTG/4 Meeting in order to update the implementation activities of the Radar Data Sharing Action Plan.
- 2.12 **Appendix B** contains follow-up to the valid conclusions and decisions.
- 2.13 On 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 displays particularly directed at those E/CAR States that have committed to implement the CPUs donated by France. The following CPUs are on request:
 - a) Anguilla: 1 CPU
 - b) Antigua and Barbuda: 2 CPUs for Antigua
 - c) Barbados: 1 CPU
 - d) Dominica: 1 CPU for Melville Hall
 - e) Montserrat: 1 CPU
 - f) Saint Kitts and Nevis: 1 CPU for Saint Kitts
 - g) Grenada, and Saint Vincent and the Grenadines will also commit, pending the successful outcome of the monoradar radar data tests

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 in Appendix B;
 - b) seek confirmation on implementation of the Radar Display CPUs donated by France as detailed in paragraph 2.13;
 - c) support the request for hosting the 3-day E/CAR/NTG/5 and Third Radar Data Sharing Ad hoc Group Meetings, as detailed in paragraph 2.9; and
 - d) identify any new task or progress on the existing tasks of the E/CAR/NTG and E/CAR/RD groups.

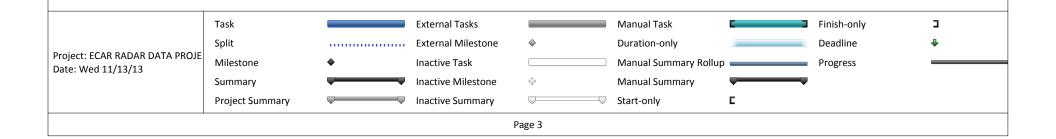
APPENDIX A

E/CAR/DCA/25 - WP/9

							PPENDIA				CA/25 - WP/9
ID	0	Task Name		Duration	Start	Finish	Predecessors		Half 2nd Half 1st Half 2nd Ha Qtr 2Qtr 3Qtr 4Qtr 1Qtr 2Qtr 3Qtr		
1									20 40 40 40 40 40 40 40 40 40 40 40 40 40	20. 20. 20. 0	(c) A(c) A(c) A(c) A(c) A(c)
2	√	First meeting to di project (E/CAR/W		1 day	Thu 6/7/12	Thu 6/7/12		CNS Com/ICAO	CNS Com/ICAO		
3	√	Identify States that the project: Express		68 days	Fri 6/8/12	Mon 9/10/12					
4	~	Identify the inte		27 days	Wed 7/18/12	Wed 8/22/12		E/CAR Members	■ E/CAR Members		
5	~	Identify number and site of displ		1 day	Wed 7/18/12	Wed 7/18/12		E/CAR Members	I E/CAR Members		
6	✓	1st Radar teleconfe	erence	1 day	Wed 7/18/12	Wed 7/18/12		RDS Members/ICAO	I RDS Members/ICAO		
7	√	2nd Radar telecon	erence	1 day	Wed 9/12/12	Wed 9/12/12		RDS Members/ICAO	I RDS Members/ICAO	.	
8	~	Develop test proce resources to condu coverage checks		60 days	Sat 7/28/12	Thu 10/18/12		Trinidad and Tobago	Trinidad and Toba	go	
9	√	Coordinate tests wand St Vincent	ith Grenada	30 days	Wed 8/1/12	Tue 9/11/12					
10	~	Provide theoretical (Barbados, French Trinidad, Antigua,	Antilles,	3 days	Tue 8/21/12	Thu 8/23/12		Barbados,French Antilles,Trinidad and Antigua,United States	¡ Barbados,French Ant	illes,Trinidad aı	nd Antigua,United States
11	√	Combine the theor		20 days	Mon 9/3/12	Fri 9/28/12		Trinidad and Tobago	■ Trinidad and Tobag	o	
12	√	Actual coverage cl Grenada and St Vi	necks with	3 days	Thu 9/20/12	Mon 9/24/12			1		
13	✓	Coordinate tests w	ith States	5 days	Fri 10/19/12	Thu 10/25/12		Trinidad and Antigua	Trinidad and Ant	gua	
14	√	Analyze network a for additional hardware/configur		120 days	Fri 6/15/12	Wed 11/28/12		Trinidad and Antigua/ ECARNTG	Trinidad and An	tigua/ ECARNT	à
15	√	Make recommenda E/CAR/DCA/24 o Sharing Project- in and procurement	n Radar Data	3 days	Tue 10/2/12	Thu 10/4/12		CNS Com Rapporteur	į CNS Com Rapporte	ur	
16		Have Barbados Ra	dar in Trinidad	180 days	Thu 3/28/13	Wed 12/4/13					
			Task			xternal Tasks		Manual Task		Finish-only	
			Split			xternal Milestone	\(\rightarrow\)	Duration-onl		Deadline	<u>-</u>
Project: ECAR RADAR DATA PROJE		Milestone	•		nactive Task	*		mary Rollup	Progress	·	
Date: V	Wed 11	1/13/13	Summary	·		nactive Milestone	\lambda	Manual Sum	, .	. 1061033	
			Project Summary	,		nactive Summary	<u> </u>	Start-only	E		
			i roject Julillaly	•	₩ II	idente Julillaly	~	y Start-Offiy	-		

	E/U	JAK/DCA/23 -	W P/9				-A2-					
ID	0	Task Name		Duration	Start	Finish	Predecessors	Responsible				Half 1st Half 2nd Half 1st H htr 40tr 10tr 20tr 30tr 40tr 10
17	III	Develop technical needed to impleme display for situation	nt the radar	320 days	Thu 1/10/13	Tue 4/1/14		Ad-Hoc Group/ICAO			Ad-Hoc	Group/ICAO
18		Send Piarco's MR Martinique- record		183 days	Wed 4/10/13	Fri 12/20/13						
19		Conduct actual cov with Antigua, Don Montserrat, St. Kit	ninica,	15 days	Mon 6/17/13	Fri 7/5/13				•		
20		Integrate Barbados Piarco's MRT	radar into	24 days	Mon 1/20/14	Thu 2/20/14						
21		Trials to determine composite image c on the displays ava French Antilles (re	an be displayed ailable by	27 days	Thu 4/11/13	Fri 5/17/13						
22		3rd Radar Telecon Present findings to 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 Displays	w Radar Data									
25		Draft specification ICAO, ECCAA, F Trinidad and Toba	rance and	1 day	Fri 1/10/14	Fri 1/10/14					I	
26		E/CAR/RD/2 Mee	ting	1 day	Tue 6/18/13	Tue 6/18/13				=		
27	==	5th Radar Sharing	-	-	Thu 6/27/13	Thu 6/27/13				I		
28		Finalize Procedure for IRMA2000 del E/CAR States		22 days	Wed 10/2/13	Thu 10/31/13				•		
29		Visit to Martinio multicasting issu		2 days	Mon 11/11/13	Tue 11/12/13				3		
			Task		E	xternal Tasks		Manual Tasl	<		Finish-only	3
			Split		E:	xternal Milestone	♦	Duration-on	ly		Deadline	•
•		RADAR DATA PROJE	Milestone	•	Ir	nactive Task		Manual Sum	nmary F	Rollup	Progress	
ate: \	Wed 11,	/13/13	Summary	_		nactive Milestone	\langle	Manual Sun	•		J	
			Project Summary	,		nactive Summary	<u></u>	Start-only	/	<u> </u>		
						•		•				

						-A3-		E/CAR/DCA/25 - WP/9
ID	0	Task Name	Duration	Start	Finish	Predecessors	Responsible	Half 2nd Half 1st Half 2nd Half 1st Half 2nd Half 1st Half 2nd Half 1st Ha Qtr 2Qtr 2Qtr 2Qtr 2Qtr 2Qtr 3Qtr 4Qtr 2Qtr 3Qtr 4Qtr 4Qtr 4Qtr 4Qtr 4Qtr
30		Set up Network to export Martinique's radar to Dominica	2 days	Mon 11/11/13	Tue 11/12/13			
31		Transfer Martinique's radar to E/CAR AFS	2 days	Fri 11/22/13	Mon 11/25/13			<u> </u>
32		Finalization of Committee members/Selection of Chairperson	1 day	Wed 2/12/14	Wed 2/12/14			I
33		Finalization of complete tender documents	25 days	Thu 1/16/14	Wed 2/19/14			
34		Obtain quotations from selected vendors for estimation	11 days	Thu 4/24/14	Thu 5/8/14		E/CAR Members	
35		Start procurement process as a regional project (tender/evaluation/selection)	48 days	Tue 5/27/14	Thu 7/31/14		E/CAR Members	E E/CAR Members
36		Delivery and Installation of equipment	81 days					-
37		Delivery	7 days	Wed 8/20/14	Thu 8/28/14		Provider	T Provider
38	ŧ	Installation- with local technicians	23 days	Mon 9/1/14	Wed 10/1/14		E/CAR Members	■ E/CAR Members
39		Training	23 days	Mon 9/1/14	Wed 10/1/14		Trinidad	☐ Trinidad
40	ŧ	Commissioning and operational readiness	23 days	Mon 9/1/14	Wed 10/1/14		E/CAR Members	■ E/CAR Members
41								
42								
43								



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

CONCLUSION/DECISION	TITLE	TEXT OF CONCLUSION	STATUS
Draft Conclusion E/CAR/NTG/4/01	Immediate Restoration of E/CAR 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.	Proposals were obtained from TSTT and sent to: St. Kitts and Nevis – router Anguilla – router and Damaged UPS due to environmental conditions. Both States have acknowledged receiving the proposals. ICAO was asked to send a letter to the States regarding this matter.
Draft 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/CARNTG 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 December2013.	The SOP from United States was received and reviewed by TSTT and TTCAA. Comments were received from France on a SOP for E/CAR AFS. Draft document to be completed and sent out by 31st October.
Draft 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).	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 enhance response time in the event of router failures to switch to the standby router.
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).	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.

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

CONCLUSION/DECISION	TITLE	TEXT OF CONCLUSION	STATUS
Draft Conclusion	Implementation of Radar	In order to facilitate the implementation of the Radar	TSTT will work with
E/CAR/NTG/4/12	Data Displays with CPUs	Data Displays based on the France provided CPUs, that:	France to complete
	Provided by	a) Trinidad and Tobago arrange the implementation of	the multicasting of
	France	the radar data feed to each corresponding nodes for	the radar from the
		operation of each radar display no later than end of	Piarco MRT to
		September 2013;	Martinique during
		b) Anguilla, Antigua and Barbuda, Dominica, Barbados,	the maintenance visit
		Montserrat and St. Kitts and Nevis proceed with the	on 11-12 November
		acquisition of the necessary monitor and local power	2013. When this is
		conditioning requirement for the CPU by the end of	perfected, the other States will follow the
		September 2013; and c) All participants in action a) and b) to provide progress	
		to the E/CAR/DCA/25 Meeting.	same process.
Decision	Radar Technical	In order to provide an accurate scenario for the	Comments received
E/CAR/NTG/4/13	Specification Request for	implementation of the radar display for the medium-long	from initial draft sent
L/C/III/1(1 G/ I/10	Information	term solution that France and Trinidad and Tobago:	out to France,
		a) Complete the update of the radar technical	ECCAA and ICAO.
		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.	
Decision Payrog (4/14	Update to Radar Data	In order to update the activities for the radar data sharing	Awaiting the
E/CAR/NTG/4/14	Sharing Implementation	implementation action plan, that Trinidad and Tobago:	progress of the
	Action Plan	a) update the Radar Data Sharing Action Plan including all the actions and activities discussed and agreed in the	multicasting which will set the timeline
		E/CAR/NTG/04 Meeting, in terms of long and short	for the other radar
		term solution actions, States/territories implementing the	sharing activities.
		Radar Displays in Phase 1 and 2, etc.;	sharing activities.
		b) present this update to the next Radar Data Sharing Ad	
		hoc Group teleconference in 20 August 2013 for	
		approval; and	
		c) present the final update to the E/CAR/DCA/25	
		Meeting.	
Draft Conclusion	Local Telecom	That the E/CAR States/territories implementing the	Information noted by
E/CAR/NTG/4/15	Infrastructure	Radar Displays in the short term solution, implement the	States. Requirements
		necessary local telecommunications infrastructure to	to be supplied by
		complete the connectivity of the circuits provided by the	TTCAA.
		E/CAR AFS Network from the demarcation point of the E/CAR AFS network router.	
Draft Conclusion	Hosting of the next	In order to conduct the next E/CAR/NTG/05 and III	E/CAR/NTG
E/CAR/NTG/4/16	E/CARNTG/05 and III	Radar Data Sharing Ad hoc Group Meetings together to	Rapporteur to
LI CHANTITUTIO	Radar	discuss and agree on the matters related to the expected	present NTG/4 report
	Data Sharing Ad hoc	improvements in the network performance, reporting and	to E/CAR/DCA/25
	Group Meetings	interconnection, as well as the result on radar data	meeting.
		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	