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

WORKING PAPER

E/CAR/NTG/5 & E/CAR/RD/3 WP/13 11/10/14

Fifth Eastern Caribbean Network Technical Group (E/CAR/NTG/5) and Third Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/3) Meetings

Guadeloupe, France, 22 to 24 October 2014

Agenda Item 3: Overview of Radar Data Sharing Activities
3.2 Implementation of radar data sharing tasks

IMPLEMENTATION OF RADAR DATA SHARING ACTIVITIES

(Presented by the Secretariat)

EXECUTIVE SUMMARY							
This working paper presents an overview of the radar data sharing activities achieved and the need for the update of the implementation plan on this matters to encompass all the radar data related actions for informing the E/CAR Directors as mandated.							
Action:	The suggested actions are detailed in section 3						
Strategic Objectives:	 Safety Air Navigation Capacity and Efficiency Environmental Protection 						
References:	 Fourth Eastern Caribbean Network Technical Group and Second Eastern Caribbean Radar Data Sharing Adhoc Group Meetings (E/CAR/NTG/4- E/CAR/RD/2), Martinique, French Antilles, France, 17 to 18 June 2013 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 						

1. **Introduction**

- 1.1 The agreement for a Central Radar Data server and the agreement for sharing/using the radar data among the E/CAR States and Territories represent an important improvement on safety and efficiency with notable improvements on ATC situational awareness in the region.
- 1.2 In the E/CAR/RD/2 Meeting, a follow-up to the Radar Data Agreement and its Teleconferences were made:

- Progress of the radar data server,
- Infrastructure needed for this radar data exchange and the offer made by France of the System Tracks from the radar sensors of Martinique and Guadeloupe to E/CAR States while the Radar Data server in Trinidad and Tobago is operational.
- Exchange of radar data coverages between France, Trinidad and Tobago, Barbados, Antigua theoretical radar coverage (FL 50, 100, 150,200 and 300)
- Completion of radar questionnaire by all participating parties
- Trinidad and Tobago submitted the required information (ICD and the corresponding SIC/SAC codes) to French Antilles and the PIARCO radar merged data
- The ongoing work of France and TSTT on the resolution of the telecom issues for the transportation of the radar data from Piarco to Martinique.
- The commitment of Antigua, Barbados, Dominica, France, Saint Lucia, Trinidad and Tobago and United States, St. Kitts and Nevis, Saint Vincent, Montserrat and Grenada to be part of the radar data sharing project.
- Update of the E/CAR radar sharing implementation Points of Contacts.
- 1.3 An update to the E/CAR Radar Data Sharing implementation plan was made as shown in **Appendix** to this paper.
- 1.4 The E/CAR/DCA/25 Meeting approved the progress achieved by the RDS Group and took note of the implementation Plan to be achieved.

2. **Discussion**

- 2.1 The radar data sharing activities as included in the implementation Plan represent the commitment of the region for achieving the foreseen situational awareness improvements and to promote future improvements in air traffic control services.
- 2.2 Even though Decision E/CAR/NTG/4/14 and conclusion E/CAR/NTG/4/15 were agreed, no update on the implementation plan was presented for the E/CAR/DCA 25 Meeting because the multicasting of the radar data was not available, which is a key activity that set the timeline for the other radar sharing activities. Also the States need to confirm that local arrangements are 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) updates the Radar Data Sharing Action Plan including all the actions and activities discussed and agreed in the E/CAR/NTG/04 Meeting, as the long and short term solution actions, States/territories implementing the Radar Displays in Phase 1 and 2, etc;
- b) presents an initial draft of this update to the next Radar Data Sharing Adhoc Group teleconference in August 2013 for approval; and
- *c) present the final update to the E/CAR/DCA/25 Meeting.*

CONCLUSION E/CAR/NTG/4/15

LOCAL TELECOM INFRASTRUCTURE

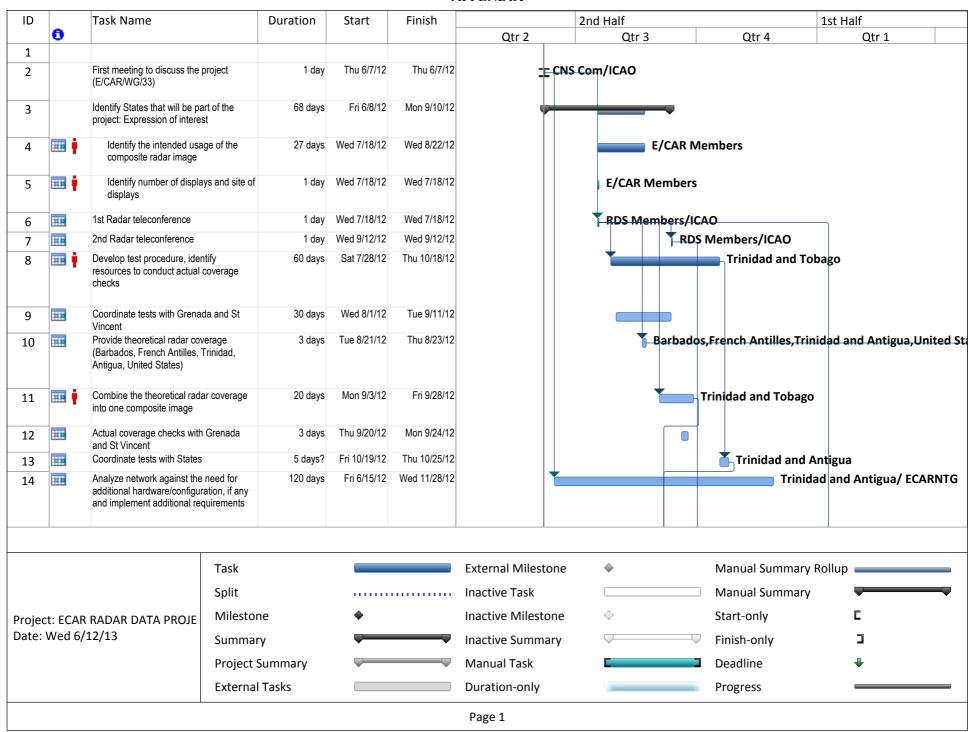
That the E/CAR States/territories implementing the Radar Displays in the short term solution, implement the necessary local telecommunications infrastructure to complete the connectivity of the circuits provided by the E/CAR AFS Network from the demarcation point of the E/CAR AFS network router.

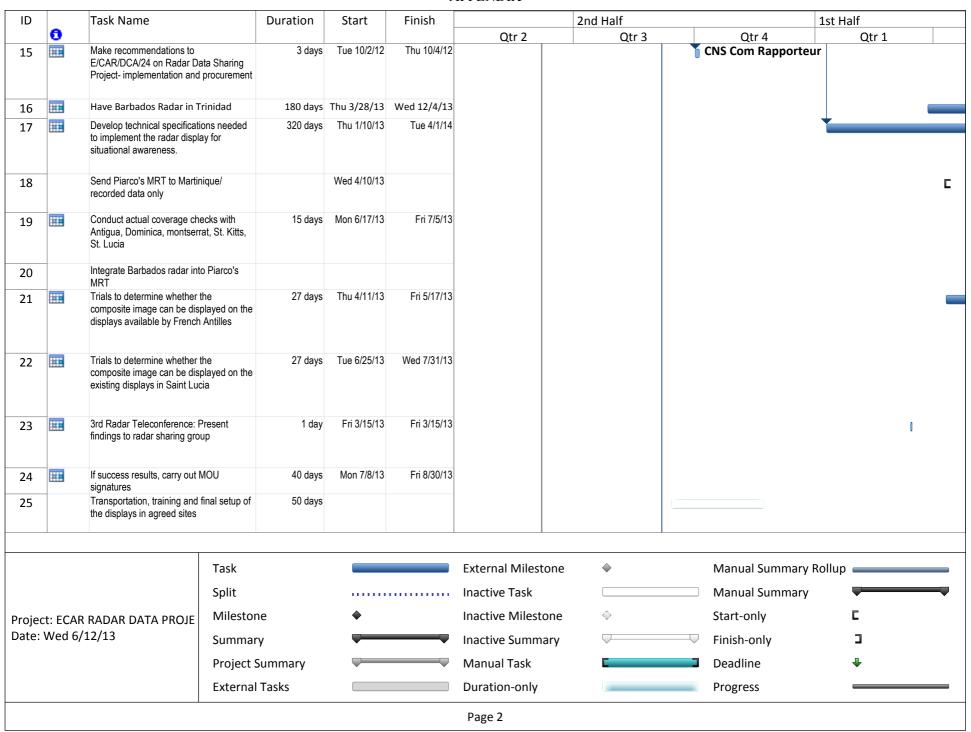
- 2.3 The Implementation Plan shall be updated based on the recent events in Radar Data Sharing matters, such as:
 - The RFI Process for collecting data shall provide more ideas for planning and orienting the region's works toward achieving improvements in the situational awareness benefits
 - The experience on using the French donated CPUs should provide a hands-on experience and practical view for using radar data displays
 - Availability of the radar data within the E/CAR AFS Network
 - Availability of the MRT data in each user site- including local availability
 - Availability of RASA guidance on OEACS States
 - Review of radar data coverage in the region (Trinidad and Tobago, Martinique, Guadeloupe, Antigua, Sint Maarten, Barbados and the benefits of specific overlap coverage from the radars and identified the States that could benefit from either single radar or multiple radars)
 - Radar Data from United States sites
 - Analysis of real Radar Coverage in States as done for Grenada and Saint Vincent

2.4 Similarly, the Implementation Plan should include the actions for radar data exchange with the adjacent FIRs as part of the process to enhance the MRT data for the E/CAR users (San Juan, Sint Maarten and Venezuela)

3. Suggested Action

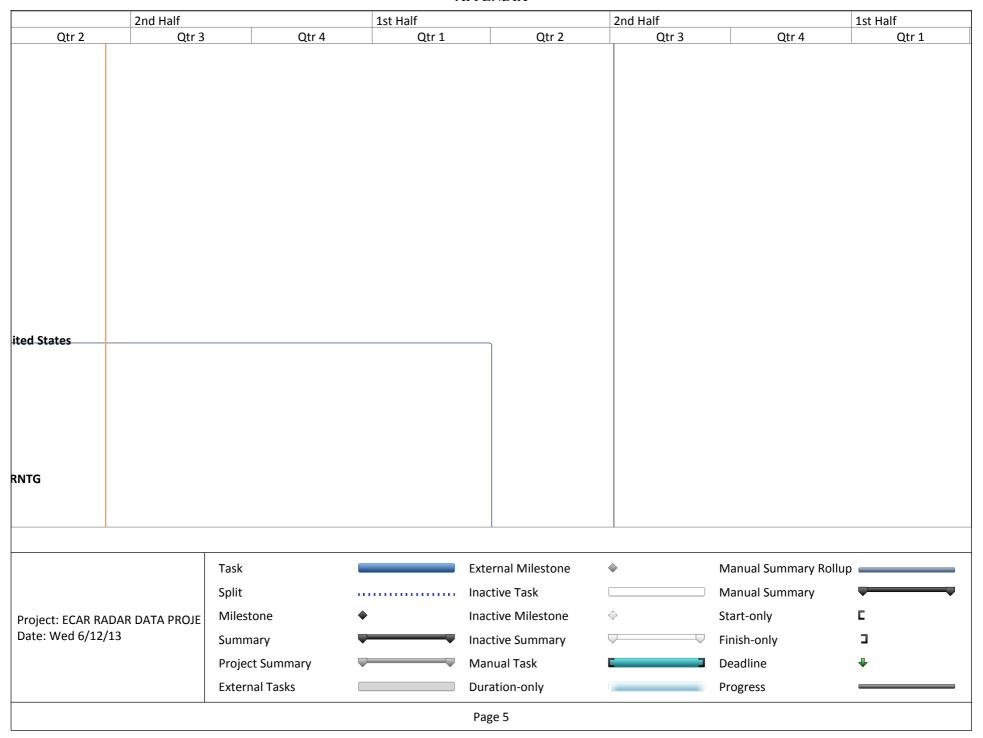
- 3.1 The Meeting is invited to:
 - a) take note of the E/CAR Radar Data Sharing achieved activities and recent progress;
 - b) review and update the E/CAR Radar Data Sharing Implementation Plan to reflect the future actions with the commitment of the E/CAR users; and
 - c) take any other action as deemed necessary.

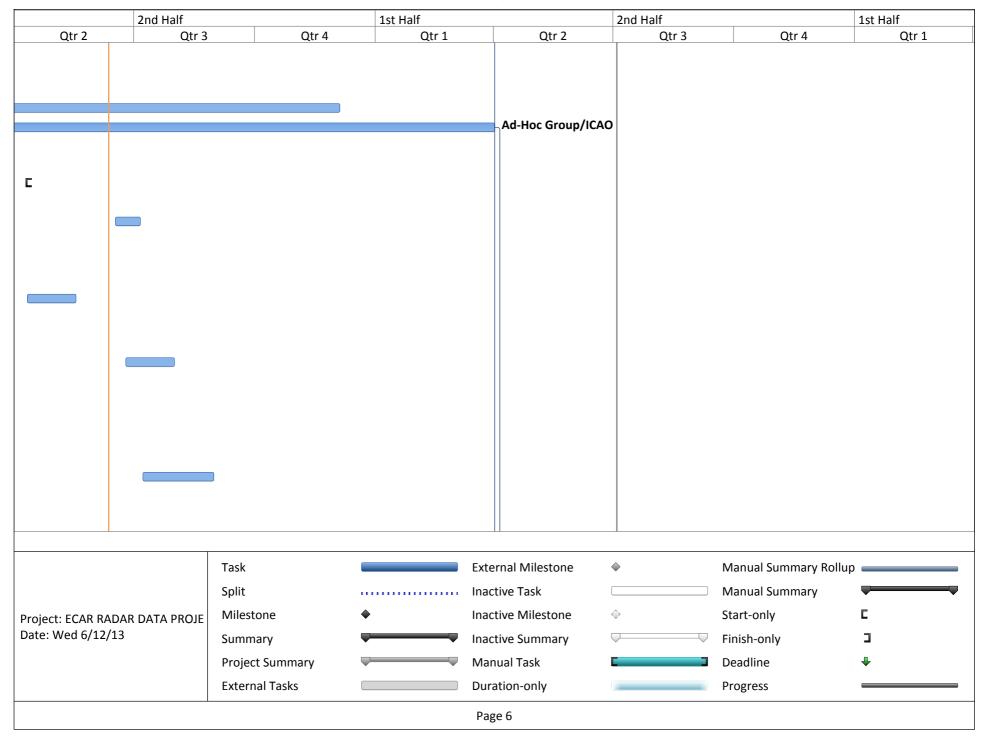


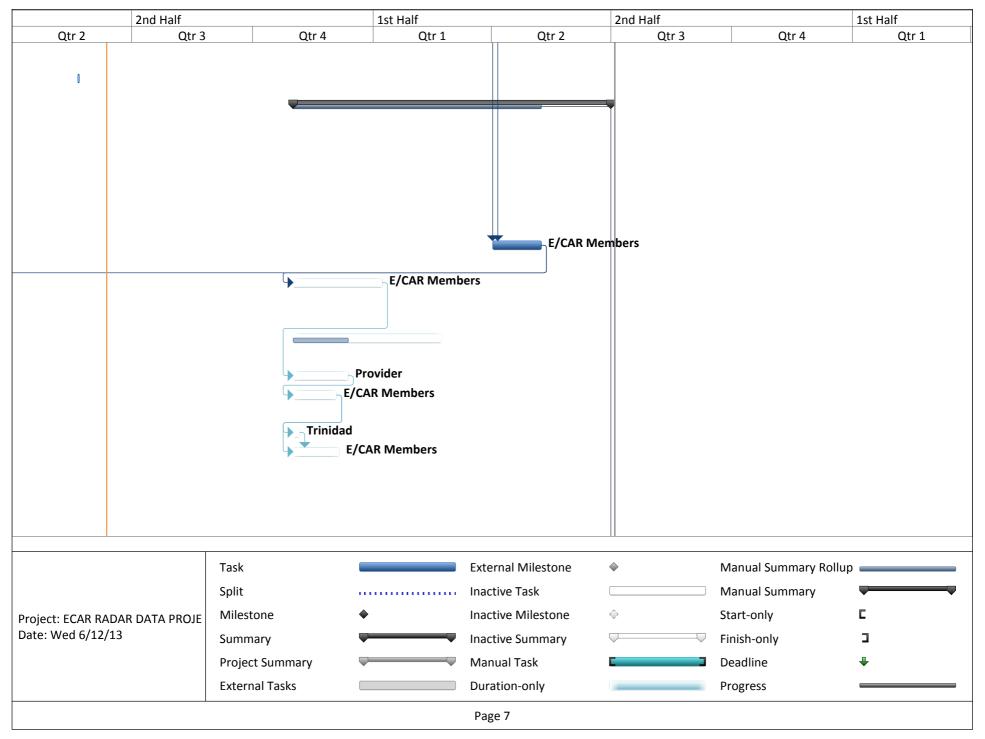


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ID		Task Name Duration Start Finish 2nd Half				1st Half				
	0						Qtr 2	Qtr 3	Qtr 4	Qtr 1
26		Commissioning and operation readiness	onal	20 days						
27		4th Radar Sharing Teleconfe	erence	1 day	Tue 5/21/13	Tue 5/21/13				
28		OP2: Acquisition of new R Displays	adar Data	172 days	Fri 11/1/13	Mon 6/30/14				
29		Draft specifications for re ICAO, ECCAA, France a and Tobago	eview by and Trinidad							
0		Finalization of Committee members/Selection of Cl								
31		Finalization of complete documents								
32		Obtain quotations from s vendors for estimation	selected	27 days	Wed 4/2/14	Thu 5/8/14				
33		Start procurement proceregional project (tender/evaluation/select		48 days						
34		Delivery and Installation of equipment		81 days						
35		Delivery		30 days						
6		Installation- with local technicians		23 days						
7		Training		3 days						
38		Commissioning and readiness	operational	25 days						
39		Radar Meeting for procurem OP2/preparation of OP1	ent	3 days					RDS Members/ICAO	
40		CATG/2		3 days					Ō	
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		Split				Inactive Task		Manual Summar	у	
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Date: Wed 6/12/13		Summary		—		Inactive Summary		Finish-only	-	
		Project Summary				Manual Task		Deadline	+	
			External Tasks				Duration-only		Progress	
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6	Task Name	Dura	ation	Start	Finish		2nd Half			1st Half		
	9					Qtr 2	Qtr 3		Qtr 4	Qtr 1		
41	Conduct tests		23 days					\	ECAR Members			
42	OP1: Use of 10 existing disp by France	lays oferred 1	137 days								_OP	
43	E/CAR/WG/34 Meeting		3 days	Tue 7/1/14	Thu 7/3/14							
		Task				External Milestone	•		Manual Summary			
		Split		•		Inactive Task			Manual Summary	—		
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	ECAR RADAR DATA PROJE ed 6/12/13	Split Milestone Summary	any.	*		Inactive Task Inactive Milestone Inactive Summary			Manual Summary Start-only Finish-only	—		
		Split Milestone		*		Inactive Task Inactive Milestone			Manual Summary Start-only	<u> </u>		







2nd	Half		1st Half		2nd Half		1st Half
Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
P1: Use Existing Displays	_						
PT. USE EXISTING DISPIRYS	•						
					E/CAR Members		
					•		
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	S	plit		Inactive Task		Manual Summary	
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