



International Civil Aviation Organization

North American, Central American and Caribbean Office (NACC)

**First Eastern Caribbean Civil Aviation Technical Group Meeting  
(E/CAR/CATG/1)**

Martinique, French Antilles, France, 19 to 21 June 2013

E/CAR/CATG/1 — WP/10

**21/06/13 – Revised**

#### Agenda Item 4

#### Air Navigation Matters

#### 4.2 Follow-up on the implementation of the NAM/CAR Regional Performance Based Air Navigation Plan (RPBANIP) in Eastern Caribbean:

- Progress reports of the AIM, AGA, ATM, CNS, MET and SAR Committees

#### PROGRESS REPORT OF THE CNS COMMITTEE

(Presented by the CNS Committee Rapporteur)

SUMMARY	
This Working Paper presents an update on the activities carried out by the CNS Committee since the E/CAR/WG/33 Meeting.	
<b>References:</b>	
<ul style="list-style-type: none"><li>• Twenty-fourth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/24), Martinique, France, 2–5 October 2012</li><li>• E/CAR/NTG/3 Meeting, Christ Church, Barbados, 5-6 June 2012</li><li>• Thirty-Third Eastern Caribbean Working Group Meeting (E/CAR/WG/33), 4 to 8 June 2012</li></ul>	
<b>Strategic Objectives</b>	<i>This working paper is related to Strategic Objectives: A. Safety – Enhance global civil aviation safety C. Environmental Protection and Sustainable Development of Air Transport</i>

#### 1. Introduction

1.1 The CNS Committee comprises of members from Antigua and Barbuda, Barbados, France, Grenada, Montserrat, Saint Lucia, Saint Vincent, Trinidad and Tobago, the United States, ECCAA and IFATCA. The Committee is always open to new members.

#### 2. Discussion

2.1 **Appendices A and B** to this paper show the status update since the E/CAR/WG/33 meeting on the CNS Committee activities, highlighting:

- Barbados advised that they have completed a survey and feasibility studies to implement MLAT/ADS-B in Barbados. To be implemented by Q1 2014;

- ECCAA advised that they are conducting feasibility studies in the OECS States toward the implementation of ADS-B;
- As a result of equipment obsolescence and lack of support from the vendor, in May 2011 Trinidad and Tobago formalized an agreement with ARINC for the provision of HF service in the Piarco Oceanic airspace;
- In compliance with the Air Navigation Plan requirements for Trinidad and Tobago, FANS1/A services from ARINC were approved and an agreement was signed in June 2012 for the provision of ADS-C and CPDLC services;
- The E/CAR AFS Network has been completed and commissioned on all services as of February 2012;
- The requirement for interconnectivity between specific points of MEVA (Sint Maarten and Puerto Rico/San Juan) and specific points of E/CAR (Anguilla, Antigua, Saint Kitts, Trinidad) has been agreed and is included in the MEVA III RFI issued 13/09/2012;
- Further to Conclusion E/CAR/DCA/23/13 - Participation in the completion of SACCSA project studies and test-bed implementation and in view of the first results obtained by the SACCSA Project – Phase III-A, and in order to support the completion of this Project, the E/CAR States/Territories through Trinidad and Tobago has joined the SACCSA Project RLA/03/902;
- Trinidad and Tobago has completed the requirements in order to host the radar data sharing server, presently receives the radar system tracks from Martinique and Guadeloupe and is working on adding the inputs from Barbados, Sint Maarten and Venezuela.

2.2 During the Twenty-fourth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/24), the CNS Committee presented a status of progress report to the E/CAR DCAs, highlighting:

- a) The Meeting took note of the progress made on CNS tasks and the preparation of the area for further automation integration with other FIRs.
- b) Radar data available from the Martinique and Guadeloupe radars are presently available at the PIARCO ACC together with radar data from Trinidad and Tobago. Other radars from Antigua, Barbados, Sint Maarten and Venezuela will be incorporated accordingly. Barbados and French Antilles reported their readiness to share data. Antigua and Barbuda indicated that they are currently planning to reactivate the radar system.
- c) Most of the E/CAR States expressed interest in receiving the radar data and to implement the radar display for situational awareness due to the operational benefits.
- d) The Meeting was informed of the current radar coverage evaluations carried out, particularly to identify the coverage at low altitudes, explaining the initial results from San Vincent and the Grenadines and Grenada's analysis.

- e) The Meeting recognized the relevant progress made on radar data sharing activities and the need to actively participate in the tasks, including the meetings; the potential costs of the radar displays; and other activities envisaged for this implementation. In this regard the Meeting agreed on E/CAR/DCA Conclusion 24/2 – E/CAR Radar Data Sharing Implementation.

**3. Suggested action**

3.1 The meeting is invited to:

- a) Review the information contained in this working paper;
- b) Identify any new tasks or progress on the tasks of the CNS Committee and
- c) Agree to any other actions as deemed appropriate.

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**CNS Committee Report (June 2013)**

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS
<b>COMMUNICATION</b>						
1	Improve VHF and HF/AMS coverage and mitigate deficiencies	Deficiencies Identification and Corresponding corrective action plan	States/ Territories coordinated by WG  <b>Trinidad and Tobago</b>	References to CNS tables 2A and 2B	<p>1. Evaluation of the existing VHF and HF AMS coverage in the E/CAR Sub-region in accordance with operational requirements and considering users' reports: for ex. LHD reports</p> <p>2. Identification of any deficiency or improvement and involved parties.</p> <p>3. Development of action plan to implement improvement/solution</p> <p>In this respect, based on LHD report, improvement to HF AMS Coverage in Piarco FIR shall be evaluated and improvements of Piarco VHF AMS coverage are also expected to be informed.</p>	<p>To mitigate against congestion on the existing ACC and Approach frequencies, Trinidad and Tobago signed contracts to implement seven air/ground (VHF mobile) frequencies. In keeping with the TTTCAA ATM modernization plan three new VHF frequencies; 126.5 MHz, 133.1 MHz and 124.0 MHz. The total replacement of the equipment for the existing 123.7 MHz and 125.4 MHz, one new frequency was added for Terminal Control (119.55MHz) and the other (119.0 MHz) for Piarco Terminal/Approach. The 123.7, 125.4, 133.1 and 126.5 are operated in 5-carrier offset and are installed at high sites Antigua, Barbados, Saint Lucia, Trinidad and Tobago. The 124.0 is operated in 2-carrier offset and is installed at high sites in Barbados and Trinidad. The 119.55 is operated in 2-carrier offset and is installed in Tobago and Trinidad.</p> <p>The circuits used are IPLCs and are not part of the E/CAR AFS Network due to delay settings for the carrier offset.</p> <p>The new AMS network was commissioned in September 2012.</p> <p><b>Evaluation with users on AMS services will be carried out by the end of 2013. ICAO will present a WP on AMS Services coordination with IATA.</b></p> <p>Due to the problems identified at past ECWG meetings with the Piarco HF AMS service as a result of equipment obsolescence and lack of support from the vendor, in May 2011 Trinidad and Tobago formalized an agreement with ARINC for the provision of</p>

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS
					<p>HF service in the Piarco Oceanic airspace.</p> <hr/> <p>- <b>Barbados</b>- new VHF equipment installed. Area covered. No IATA reports. Frequencies: (TWR) 118.7, 121.9, 121.5, (Ground) 121.8, (App) 129.35, 128.85, 120.7, 121.2, 121.5, (ATIS) 132.725</p> <hr/> <p>- <b>San Juan</b> -No VHF issues</p> <hr/> <p>- <b>SLU/GC</b>- (TWR) 118.0 - radio stations reported to telecoms agency NTRC, 121.5, (GND) 121.9 (interference from Martinique who use this as approach) SLU to make a report, report made to NTRC initially to identify source of interference.</p> <hr/> <p>- <b>SLU-H</b> (APP) 119.8 (the request to implement a discrete radio link was made to SLASPA regarding noise from cell sites and radio stations- implementation to be completed in Q4 2013), (TWR) 118.3, (Ground) 121.6, (EMG) 121.5</p> <hr/> <p>- Martinique – TWR coverage is good. APP- OK</p> <hr/> <p>- Guadeloupe -APP OK TWR – OK</p> <p>France is presently updating regulations on frequency protection in keeping with ITU regulations.</p> <hr/> <p>- <b>Antigua</b>- (TWR) 118.2, (APP) 119.1, 121.5 (EMG), (Ground) 121.9</p> <p>There have been IATA reports on</p>	

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						<p>the TWR frequency in the Western part regarding coverage on 118.2. An action plan to relocate the 118.2 antenna and a radio link was forwarded with a target date to implement Q4 2013</p> <hr/> <p><b>Dominica/</b> Melville Hall TWR - 118.9, 121.9 and 121.5 –No issues</p> <hr/> <p>– Dominica/ Canefield TWR 118.87, 121.9 and 121.5 –No issues</p> <hr/> <p><b>St Vincent</b> –No issues</p> <hr/> <p><b>Grenada-</b> (APP) 119.4-coverage issues in the north east. Plan to relocate antenna and install remote radio link to resolve problem Equipment already purchased. Implementation date TBD</p> <hr/> <p><b>Montserrat</b> – Issue at high site -a radio link was lost between high site and airport therefore reduced coverage in the south. Plans in place to restore high site by end Q42013</p> <hr/> <p>– <b>St Kitts</b> – Coverage problem in north with aircraft coming from St. Maarten –radio link to be replaced by end Q4 2013</p> <hr/> <p>– <b>Nevis-</b> Equipment needs to be replaced/no longer supported by manufacturer. RFQ sent out</p>	
2	Improve AFTN communications and ATS direct voice communications and mitigate deficiencies	Deficiencies Identification and corresponding corrective action plan	States/ Territories coordinated by WG <b>E/CAR/NTG</b>	References to CNS tables 1A and 1C	<ol style="list-style-type: none"> <li>1. Evaluation of the existing AFTN circuits in the E/CAR Sub-region in accordance to operational requirements.</li> <li>2. Identification of any deficiency or improvement and involved parties.</li> <li>3. Development of</li> </ol>	<p>CNS Tables 1A and 1C are met in the Eastern Caribbean and supported by the new E/CAR AFS Network (MPLS) which was fully operational (monitoring completed) in October 2011 and handover of documentation in February 2012.</p> <p>The AFTN was replaced with new</p>	Completed

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					<p>action plan to implement improvement, solution</p> <p>In this respect, the need for AFTN Service for MET users have been identified for example: in Antigua, Barbados</p> <p>The improvements of these communications through the implementation of the MPLS Network should also be informed.</p> <p>Contingency or backup AFTN agreement involving Communication requirements are to be identified for example: Barbados- T&amp;T, use of alternative AFTN application (as the one of the USA FAA), etc.</p> <p>The improvement of these communications and the impact on FPL distribution shall also be informed as part of the revision of the solutions to problems with lack/duplication of FPLs.</p>	<p>Comsoft/IDS AMHS/AISS systems. The new AISS commissioned on 3<sup>rd</sup> March 2013 is equipped with centralized flight planning capability.</p> <p>Dial plan voice and AFTN issues to be resolved as per timelines from E/CAR/NTG/4 meeting</p>	
3	Replace E/CAR Telecommunication Network by E/CAR VSAT Network	E/CAR VSAT Telecommunication Network	E/CAR/NTG		E/CAR NTG shall report its advances in the replacement process as well as the immediate solution actions carried out in the current AFS Network and and short term activities with the MPLS network.	Conclusion E/CAR/WG/31/7 Replacement of the E/CAR AFS Network was superseded by Decision E/CAR/NTG/2/10 which was superseded by draft Decision E/CAR/NTG/3/01 based on good performance of the MPLS Network.	Superseded
4	Evaluation of required communication infrastructure to satisfy the navigation requirements based on PBN -	Analysis of communication infrastructure	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>		<p>For the development of this task, operational PBN requirements need to be defined.</p> <p>The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.</p>	Awaiting this information from the ATM Committee in conjunction with the CAR PBN Cooperative project.	Valid
5	Adoption of "equipment modernization/DATIS Service implementation plan for int'l airports" compliance to ATM requirements	DATIS Modernization and Implementation Plan	States/ Territories coordinated by WG		E/CAR States are invited to inform on the implementation of ATIS (DATIS) Services, also the identification of this ATM requirements for defined airports shall be determined.	<ol style="list-style-type: none"> <li>1. Trinidad and Tobago automated voice</li> <li>2. Antigua- automated voice</li> <li>3. Barbados –automated voice</li> <li>4. Dominica-No ATIS</li> </ol>	Valid

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					<i>(via data link to the aircraft-VDL mode 2/4 or ACARS) System connects the AFTN and automatically creates the message-no manual intervention by ATC</i>	5. Grenada-No ATIS 6. Guadeloupe-recorded by ATC. No plans to change this. 7. Nevis-No ATIS 8. Martinique- recorded by ATC. No plans to change this. 9. Montserrat-No ATIS 10. St. Kitts-No ATIS 11. St. Lucia- No ATIS 12. St. Vincent-No ATIS 13. San Juan-information to be provided	
6	Elaborate Air-ground datalink Plan based on CAR/SAM Act. Plan and Datalink implementation programme	Initial Transition Plan for ATN Air-ground applications	GREPECAS CNS/ATM/SG (ATN TF)	References to CNS table 1Bc /Appendix AW and AX of Agenda 3 of GREPECAS/13	E/CAR States are invited to take note of this work to be developed by GREPECAS.  Also E/CAR States shall review the results of the ATN Ground-Ground and Air-ground Application seminar held on Dominican republic on Nov 2009. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>	This task is being carried out by the GREPECAS Group D Project and no further action for E/CAR/NTG is required.  <i>Trinidad and Tobago, Cuba, Dominican Republic, COCESNA, IATA-members of Project D</i>	Completed Project D activities
7	Elaborate ATN AIDC Implementation Plan	Initial Transition Plan for ATN ground-ground Applications (AIDC)	GREPECAS CNS/ATM/SG (ATN TF)		E/CAR States are invited to take note of this work to be developed by GREPECAS.	This task is being carried out by the GREPECAS Group C Project and no further action for E/CAR/NTG is required.	Completed Project C activities
8	Update the ATN Routers Regional Plan	CNS Table 1Ba Updated proposal	GREPECAS CNS/ATM/SG (ATN TF)	References to CNS table 1Ba	E/CAR States are invited to take note of this work to be developed by GREPECAS.	This task is being carried out by the GREPECAS Group D Project and no further action for E/CAR/NTG is required.	completed
9	Preliminary review of ATN Routers Regional Plan	Comments to current version of CNS Table 1Ba	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>	References to CNS table 1Ba	E/CAR States shall review and comment the initial version of the ATN Routers Regional Plan. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Completed
10	Evaluation of AMHS CAAS addresses proposal	Comments to AMHS CAAS addresses proposal	States/ Territories coordinated by WG <b>E/CAR/NTG</b>	CAR AMHS CAAS Addresses Proposal -	E/CAR States shall review and comment the CAR AMHS CAAS Addresses Proposal. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Completed



ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					NS.html		
11	Technical evaluation of communications and interfaces for AIDC implementation over the AFTN	Technical recommendations for AIDC implementation over the AFTN	States/ Territories coordinated by WG  Trinidad and Tobago and the Piarco FIR  and Guadeloupe and Martinique when both ATM systems are replaced 2020		For the development of this task, operational AIDC requirements need to be defined including the corresponding ATS units involved.  The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.	A regional implementation Plan is being coordinated by ICAO and will be presented to the ANI/WG/01 Meeting. Telecommunication requirements will be reviewed based on PIARCO AIDC implementation.	Valid
12	Perform activities for the implementation of the ATN and its applications according to the CAR/SAM Regional strategy for the implementation of the ATN and its applications. (Appendix of Agenda 3 of GREPECAS/13 Report):  i) ACT PLAN COM: 12. Perform AMHS operation trials	Trial results	USA, Trinidad & Tobago  <b>E/CAR/NTG</b>		Involved parties shall inform of relevant activities on the planning or results of these trials.	AMHS interconnection activities are to be carried out with United States and Trinidad and Tobago. AMHS implementation is carried out based on the regional AMHS Implementation Plan.	Valid
13	ii) ACT PLAN COM: 13. Evaluation of regional networks to support ATN Applications	Trial results	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>		Evaluation of AMHS – ATN ground-ground application shall be conducted by E/CAR/NTG Group. The E/CAR/WG shall determine, based on operational requirements, the priority and gradual implementation of the ATN supporting network.	The new E/CAR AFS Network (MPLS) can expand to accommodate ATN applications.  AMHS trials between Piarco and United States (San Juan).	Valid
14	iii) ACT PLAN COM: 14. Update of Regional Plan for ATN ground-ground applications	Updates to Regional Plan for ATN ground-ground applications	States/ Territories coordinated by WG  <b>E/CAR/NTG</b>	References to CNS table 1Bb	E/CAR/WG members shall provide any update to current Regional Plan for ATN ground-ground applications (CNS Table 1Bb). Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>	AMHS implementation will be carried out within all E/CAR AFS Network members	Valid
15	iv) ACT PLAN COM: 15. Review of CAR/SAM Regional Program for the implementation of the air – ground data links	Comments to this Regional Program	States/ Territories coordinated by WG	Reference: CAR/SAM Regional Program for the implementation of the air-ground data links	CAR/SAM Regional Program for the implementation of the air – ground data links has not been developed.	CAR/SAM Regional Program for the implementation of the air – ground data links has not been developed. It is suggested to remove the task until this reference is developed.	Completed
16	v) A-G Applications trial	Trial Plans for A-G	States/ Territories		CAR/SAM Regional Plan for	CAR/SAM Regional Plan for the	Completed

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
	Plans	Applications	coordinated by WG		the implementation of the air – ground data links has not been developed.	implementation of the air – ground data links has not been developed. It is suggested to remove the task until this reference is developed.	
17	vi) ACT PLAN COM: 17. Participate on training seminars and events	Participation on events	States/ Territories		On-going task.  Several E/CAR States participated in the ATN Ground-Ground and Air-ground Application seminar held on Dominican republic on Nov 2009. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>		Valid
18	Procure the application of management/coordination of frequency assignments and the implementation of tools	Frequency Management and coordination tools	ICAO		ICAO is working on a Software application to facilitate frequency assignments coordination.	Note has been taken.	Completed
19	Implement management and coordination of frequencies with ICAO	Comments to ICAO reviewed frequency assignment lists	States/ Territories			Note has been taken.	Completed
20	Comments to management frequency tools provided by ICAO	Comments and evaluation of tools	Barbados, French Antilles, Trinidad & Tobago, ECCAA		Completed. A new version will be developed based on comments received.	Note has been taken.	Completed
21	Promote and coordinate diffusion of ICAO position for WRC-2012		ICAO		NAM CAR SAM Regional Preparatory Meeting for WRC-2012 (NCSRPM) was organized. E/CAR States shall complete the Point of Contact to coordinate the support to ICAO position for the WRC-2012	Note has been taken.	Completed
22	Participate/coordinate with their national spectrum regulation entities the support to ICAO position for the WRC-12	Support ICAO position in WRC-2012 related meetings	States/ Territories		Several E/CAR States participated in the ATN Ground-Ground and Air-ground Application seminar held on Dominican Republic on Nov 2009. Information available on: <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a>	The CAAs work closely with spectrum/telecommunications management agency and ICAO to support the protection of the aviation band.	Completed
<b>NAVIGATION</b>							
23	Evaluation of required nav. infrastructure to satisfy PBN based nav. requirements, identifying improvements	Analysis of required navigation infrastructure for example:	States/ Territories coordinated by WG	Reference to CNS table 3	For the development of this task, operational PBN navigation specifications need to be defined.		Valid

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	and deficiencies	DME-DME coverage for selected ATS routes for RNAV 5; and Identification of deficiencies; and corresponding corrective Action plan			The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		
24	Development of a regional strategy for the implementation of navigation systems	Regional Strategy for Navigation Systems	GREPECAS CNS/ATM/SG	Navigation Infrastructure alternatives for PBN	E/CAR States are invited to take note of the CAR/SAM Regional strategy approved by GREPECAS.	Note has been taken.	Completed
25	Develop recommendations for training in GNSS elements	recommendations for training in GNSS elements	GREPECAS CNS/ATM/SG		E/CAR States are invited to take note of this work to be developed by GREPECAS.  GBAS/SBAS training proposal were proposed by GNSS Task Force and presented in CNS/ATM/SG01 Meeting, information available on Meeting report.	Note has been taken.	Completed
26	Plans on GNSS systems (SBAS and GBAS) and trial conduction	GNSS trial plan	States/ Territories coordinated by WG	Navigation Infrastructure alternatives for PBN	Based on GREPECAS references ( <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> ), the E/CAR states shall plan or agree on future trials for GBAS and SBAS evaluation.	The E/CAR through Trinidad and Tobago has joined the SACCSA Project RLA/03/902. GNSS Plan to be developed	Valid
<b>SURVEILLANCE</b>							
27	Evaluation of radar coverage and identification of improvements to satisfy operative requirements	Identification of improvements and Respective Action Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	E/CAR States shall:  1. Evaluation of the existing SSR radar coverage in the E/CAR Sub-region in accordance to operational requirements and looking for situational awareness improvements. 2. Identification of any improvement on a collaborative basis. 3. Development of action plan to implement improvement.	Result is the plans for radar sharing Trinidad and Tobago, Antigua, French Antilles, Barbados, Sint Marten, Venezuela – this would cover the portion of the Piarco FIR with some overlap for redundancy	Completed
28	Radar Data Sharing implementation	Agreements and implementation of radar data sharing	Barbados, French Antilles, Saint Lucia, Trinidad & Tobago, Venezuela and Sint Maarten		The involved parties are expected to inform their advances in the agreements and implementation of radar data sharing activities, including advances in the implementation for a multi-radar data feed.	Trinidad and Tobago is host for the radar data sharing server and presently receives the radar system tracks from Martinique and Guadeloupe. The complete project encompasses receiving radar system tracks from Barbados, Antigua, Sint Maarten and Venezuela. The merged	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
					The Radar Data Sharing Task Force shall provide their report on this subject.	image will be made available to the E/CAR States via the E/CAR AFS Network.	
29	Evaluation of surveillance infrastructure to satisfy navigation requirements for PBN	Analysis of surveillance infrastructure	States/ Territories coordinated by WG		For the development of this task, operational PBN navigation specifications need to be defined.  The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		Valid
30	Implementation of 24 bits Address registry	24 bits Aircraft Address registry	States/ Territories coordinated by WG		The involved parties are expected to inform their advances in the development and implementation of their national registry of 24-bit aircraft addresses in accordance to Annex 10, Vol III Chap 9 and GREPECAS guidance ( <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> ).	Trinidad and Tobago – completed  OECS - completed  Martinique and Guadeloupe - completed  Barbados -outstanding	Valid
31	ADS-B, ADS-C and MLAT trials	Trials on ADS-B, MLAT and ADS-C	States/ Territories coordinated by WG		E/CAR States shall informed their national plans for conducting trials on ADS-B, ADS-C, MLAT and E/CAR/WG shall consolidate a plan for these trials to benefit of its results.	<p><b>Barbados</b> advised that they have completed a survey and feasibility studies to implement MLAT/ADS-B in Barbados. To be implemented by Q1 2014.</p> <p>_____</p> <p><b>ECCAA</b> advised that they are conducting feasibility studies in the OECS States toward the implementation of ADS-B</p> <p>_____</p> <p>_____</p> <p><b>France</b> – Simulations carried out in Martinique and French Guyana with 8 stations- results were not sufficient to cover all the airspace for Approach.</p> <p>ADS-B – one receiver in French Guyana. To be implemented in 2014.</p> <p>ADS-B trials on-going with one receiver in Martinique but will not implement</p> <p>_____</p> <p>_____</p>	Valid

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						<b>Trinidad and Tobago</b> ADS-B and C trials on-going in the Piarco terminal and oceanic airspace respectively.	
32	ADS-C/ CPDLC evaluation and trial Plans	Plan on ADS-C and CPDLC	States/ Territories coordinated by WG			Trinidad and Tobago signed an agreement with ARINC for the provision of FANS 1/A services. Trinidad and Tobago will carry out trial with ADS-C and CPDLC functionalities by Q3 2013  _San Juan – Information to be provided	Valid
33	ADS-B cost – benefit analysis		States/ Territories coordinated by WG		Cost-benefit analysis for ADS-B shall be organized to justify implementation and enforcement of ADS-B use.	Cost-benefit analysis to be carried out	Valid
37	Development of a regional strategy for surveillance systems		GREPECAS CNS/ATM/SG		E/CAR States are invited to take note of this work to be developed by GREPECAS.	Noted E/CAR States	Completed
38	Mode S radar implementation and update to Regional Plan on Surveillance Systems	Information on Mode S Radar implementation and updates to Regional Plan	States/ Territories coordinated by WG	Reference to CNS table 4A	E/CAR States shall inform on their plans for Mode S implementation.  This information and other surveillance systems implementation shall be used to update the regional Plan on Surveillance System (CNS table 4A available on <a href="http://www.mexico.icao.int/CNS.html">http://www.mexico.icao.int/CNS.html</a> .)	Trinidad and Tobago – Mode S  Barbados – No Mode S  Antigua – No Mode S  San Juan – No Mode S  France – No Mode S	Valid

Reference	Conclusion No.	Details	Status
Ref E/CAR/CATG-WP/4	DRAFT CONCLUSION E/CAR/WG/33/3	<p><b>RADAR DATA SHARING ACTIVITIES IN THE E/CAR REGION</b></p> <p>In order to prepare for the implementation of the radar data activities in the E/CAR Region, that</p> <ol style="list-style-type: none"> <li>Trinidad and Tobago confirm that the Flight Plan id. correlation information can be sent with the system tracks by <b>30 June 2012</b>; Completed</li> <li>E/CAR States and Territories interested in receiving radar data, provide a Point of Contact for its implementation to the CNS Committee Rapporteur, as well foreseen their operational requirements by <b>30 June 2012</b>; Completed</li> <li>States/Territories providing radar data to the Radar Data server, to provide their theoretical radar coverage (FL 10, 30, 50, 100, 150, 200 and 300) to the CNS Committee Rapporteur by <b>10 July 2012</b>; Completed</li> <li>Trinidad and Tobago to provide to States and ICAO the radar sharing Interface Control Document (ICD) by <b>31 October 2012</b>. <b>Completed</b></li> </ol>	<b>Completed</b>
Ref E/CAR/CATG-WP/4	DRAFT CONCLUSION ECAR/WG/33/8	<p><b>ACTION PLAN FOR AIDC IMPLEMENTATION USING CPL - LAM MESSAGES</b></p> <p>That, considering the importance and benefits of AIDC implementation, States/ Territories of the Eastern Caribbean:</p> <ol style="list-style-type: none"> <li>inform the ICAO NACC Regional Office about the capacity of their ATC Systems to process CPL - LAM messages no later than 21 September 2012;</li> <li>review the NAM ICD and CAR/SAM ICD as a basis to implement AIDC, recommending changes to the CAR/SAM ICD for its update no later than 26 October 2012;</li> <li>prepare together with ICAO an action plan to harmonize the AIDC implementation for the use of CPL – LAM messages; and</li> <li>present this Action plan to the next Working Group meetings for its implementation.</li> </ol>	<p><b>VALID</b></p> <p>Telecom requirements to be identified and analysed for its AIDC implementation based on the Regional AIDC plan.</p>
Ref E/CAR/CATG-WP/4	Conclusion PIARCO/FIR/PG/4/3 E/CAR RADAR DATA SERVER	That Trinidad and Tobago will provide and host the radar data server for the sharing/exchange/remoting of radar data in the Eastern Caribbean.	Completed
Ref E/CAR/CATG-WP/4	Conclusion E/CAR/WG 33/4	<p><b>PREPARATION FOR THE IMPLEMENTATION OF THE CENTRAL FLIGHT PLANNING SYSTEM, AERONAUTICAL INFORMATION SERVICES SYSTEM (AISS) AND THE ATS MESSAGE HANDLING SYSTEM (AMHS) SYSTEM</b></p> <p>In order to prepare and evaluate the sites for the end user equipment for the Central Flight Planning System, Aeronautical Information Services System (AISS) and the ATS Message Handling System (AMHS), that E/CAR States/ Territories users of the AFTN system complete the requirement list (Appendix C of WP/21) and send it to Trinidad and Tobago (Veronica Ramdath, Trinidad and Tobago Civil Aviation Authority) by <b>30 June 2012</b>, with a copy to the ICAO NACC Regional Office.</p>	Completed
Ref E/CAR/CATG-WP/4	CONCLUSION 24/2 E/CAR RADAR DATA SHARING IMPLEMENTATION	<p>That considering the important operational benefits and safety improvements that will be obtained with the implementation of radar data sharing in the E/CAR area, the E/CAR Directors of Civil Aviation:</p> <ol style="list-style-type: none"> <li>approve the initial radar project schedule (as shown in Appendix B to WP/20); and</li> <li>request interested E/CAR States/Territories to confirm their Point-of-Contact for this implementation with the CNS Committee Rapporteur and ICAO by 30 November 2012.</li> </ol>	Completed

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