



ICAO

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WORKING PAPER

E/CAR/CATG/3 — WP/10  
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**Third Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/3)**  
Basseterre, Saint Kitts and Nevis, 19 to 21 October 2016

**Agenda Item 3: Air Navigation Matters**

**3.2 Follow-up on the implementation of the NAM/CAR Regional Performance Based Air Navigation Plan (RPBANIP) and the *Port-of-Spain* Declaration Air Navigation Targets in the Eastern Caribbean:**

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

**PROGRESS REPORT OF THE CNS COMMITTEE**

(Presented by CNS Committee Rapporteur)

<b>EXECUTIVE SUMMARY</b>	
This Working Paper presents an update on the activities carried out by the CNS Committee since the E/CAR/CATG/02 Meeting.	
<b>Action:</b>	The suggested actions are presented in Section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"><li>• Safety</li><li>• Air Navigation Capacity and Efficiency</li></ul>
<i>References:</i>	<ul style="list-style-type: none"><li>• Second Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/02) Miami, United States, 15 - 17 July 2015</li></ul>

**1. Introduction**

1.1 During the period since the last meeting of the CNS Committee, the work of the CNS Committee decelerated. This was partly due to limitations faced by some Member States and Territories to have the capability of investing the required resources towards the advancement of CNS activities.

**2. Discussion**

2.1 **Appendix A** to this paper shows the status update since the E/CAR/CATG/02 meeting on the CNS Committee activities. Further updates are expected arising from discussions during the meeting.

**3. Suggested Actions**

3.1 The Meeting is invited to:

- a) take note of the progress and status of the CNS Committee's activities;
- b) to review and agree on the activities to be carried out; and
- c) take any other action as deemed necessary.

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ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
<b>COMMUNICATION</b>							
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.  <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>	<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> <li>5. Grenada-No ATIS</li> <li>6. Guadeloupe-recorded by ATC. No plans to change this.</li> <li>7. Nevis-No ATIS</li> <li>8. Martinique- recorded by ATC. No plans to change this.</li> <li>9. Montserrat-No ATIS</li> <li>10. St. Kitts-No ATIS</li> <li>11. St. Lucia- No ATIS</li> <li>12. St. Vincent-No ATIS</li> <li>13. San Juan- San Juan ATCT ATIS Freq, is 125.80 Main Transmitter located at the San Juan RTR.</li> </ol>	Valid
<b>NAVIGATION</b>							
23	Evaluation of required nav. infrastructure to satisfy PBN based nav. requirements, identifying improvements and deficiencies	Analysis of required navigation infrastructure for example: DME-DME coverage for selected ATS routes for RNAV 5; and Identification of deficiencies; and corresponding corrective Action plan	States/ Territories coordinated by WG	Reference to CNS table 3	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	
26	Plans on GNSS systems	GNSS trial plan	States/ Territories	Navigation	Based on GREPECAS	SACCSA Project RLA/03/902 has Valid	

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
	(SBAS and GBAS) and trial conduction		coordinated by WG	Infrastructure alternatives for PBN	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.	ended. States to advise on GNSS initiatives (GBAS)	
<b>SURVEILLANCE</b>							
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.	<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.  <b>ECCAA</b> advised that they are conducting feasibility studies in the OECS States toward the implementation of ADS-B	Valid

ID	TASK NAME	DELIVERABLE	RESPONSIBLE	REFERENCE	COMMENTS	STATUS	
						<p><b>France</b> – Two (2) ADS-B stations should be ordered and installed in Martinique and Guadeloupe for trials</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> <hr/> <p><b>Trinidad and Tobago</b> ADS-B: on going trials</p>	
32	ADS-C/ CPDLC evaluation and trial Plans	Plan on ADS-C and CPDLC	States/ Territories coordinated by WG			<p>ADS-C /CPDLC implemented July 7, 2016</p> <hr/> <p><b>San Juan</b> – Information to be provided</p>	Valid
						<p>France - ADS-C is not planed nor required in FWI.</p> <p>ADS-C / CPDLC is in use in French Guyana since May 2011</p>	
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	<p>E/CAR States shall inform on their plans for Mode S implementation.</p> <p>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>.)</p>	<p>Trinidad and Tobago – Mode S</p> <p>Barbados – No Mode S</p> <p>Antigua – No Mode S</p> <p>San Juan – No Mode S</p> <p>France – No Mode S</p>	Valid