

E/CAR/WG/32
CNS COMMITTEE REPORT OF ACTIVITIES

FOLLOW-UP AND IMPLEMENTATION ACTION PLAN

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
	AIR-GROUND AND GROUND-GROUND COMMUNICATIONS				
1	Improve VHF and HF/AMS (R) coverages and mitigate deficiencies	States/ Territories coordinated by WG	Deficiencies Identification and Corresponding corrective action plan 1. Evaluation of the existing VHF and HF AMS coverage in the E/CAR Subregion in accordance to operational requirements and considering users' reports: for ex. LHD reports 2. Identification of any deficiency or improvement and involved parties. 3. Development of action plan to implement improvement, solution 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. The use of the E/CAR AFS Network as telecommunication mean shall also be indicated as part of the improvement.	The new and existing ECAR AFS network is not designed to be the medium for Piarco 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 TTCAA 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 A3-123.7 MHz and A7-125.4 MHz, one new frequency was added for Terminal Control (119.55MHz) and the other (119.0 MHz) for an extended range radio for Piarco Terminal/Approach and this to be installed at high sites located at Trinidad, Tobago. The ATC frequencies will be located at high sites Antigua, Barbados, Saint Lucia, Trinidad and Tobago. Expected to be completed in 3rd quarter 2010 and tested, commissioned in 4th quarter 2010 No adverse reports received on performance of the HF	Trinidad and Tobago

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
2	Improve AFTN communications and ATS direct communications and mitigate deficiencies	States/ Territories coordinated by WG	Deficiencies Identification and Corresponding corrective action plan 1. Evaluation of the existing AFTN circuits in the E/CAR Subregion in accordance to operational requirements. 2. Identification of any deficiency or improvement and involved parties. 3. Development of action plan to implement improvement, solution In this respect, the need for AFTN Service for MET users have been identified for example: in Antigua, Barbados The improvements of these communications through the implementation of the MPLS Network should also be informed. Contingency or backup AFTN agreement involving Communication requirements are to be identified for example: Barbados- T&T, use of alternative AFTN application (as the one of the USA FAA), etc. 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.	Deficiencies will be resolved with the implementation of the new E/CAR AFS Network	E/CAR/NTG
3a)	Replace E/CAR Telecommunication Network by E/CAR VSAT Network	E/CAR/NTG	E/CAR VSAT Telecommunication Network	Report on NTG/01 Meeting details activities	E/CAR NTG
4	Evaluation of required communication infrastructure to satisfy the navigation requirements based on PBN.	States/ Territories coordinated by WG	Analysis of communication infrastructure For the development of this task, operational PBN requirements need to be defined. The E/CAR/WG, under the ATM, shall define these requirements and the priority of this implementation.		E/CAR/NTG - United States (in conjunction with # 3 – Surveillance)
5	Adoption of an “equipment modernization/DATIS Service implementation plan for international airports” in compliance to the ATM requirements.	States/ Territories coordinated by WG	DATIS Modernization and Implementation Plan	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.	Rudy Ashe –Oct 30 2010

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
6	Elaborate Air-ground datalink progressive execution Plan based on CAR/SAM Activities Plan and Datalink implementation programme (Appendix AW and AX of Agenda 3 of GREPECAS/13).	GREPECAS CNS/ATM/SG (ATN TF)	Initial Transition Plan for ATN Air-ground applications	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: http://www.mexico.icao.int/CNS.html	
7	Elaborate ATN AIDC Implementation Plan	GREPECAS CNS/ATM/SG (ATN TF)	Initial Transition Plan for ATN ground-ground Applications (AIDC)	E/CAR States are invited to take note of this work to be developed by GREPECAS.	
8	Update the ATN Routers Regional Plan	GREPECAS CNS/ATM/SG (ATN TF)	CNS Table 1Ba Updated proposal	E/CAR States are invited to take note of this work to be developed by GREPECAS.	E/CAR/NTG
9	Preliminary review of ATN Routers Regional Plan	States/ Territories coordinated by WG	Comments to current version of CNS Table 1Ba E/CAR States shall review and comment the initial version of the ATN Routers Regional Plan. Information available on: http://www.mexico.icao.int/CNS.html	Completed. Routers to be implemented as per new E/CAR/AFS Network	E/CAR/NTG
10	Evaluation of AMHS CAAS addresses proposal	States/ Territories coordinated by WG	Comments to AMHS CAAS addresses proposal E/CAR States shall review and comment the CAR AMHS CAAS Addresses Proposal. Information available on: http://www.mexico.icao.int/CNS.html	Completed. IPv4 agreed. Addressing scheme approved at ATN/5	
11	Technical evaluation of communications and interfaces for AIDC implementation over the AFTN.	States/ Territories coordinated by WG	Technical recommendations for AIDC implementation over the AFTN 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.	Closed. Evaluation completed. AIDC to be implemented over new E/CAR network between Piarco and San Juan and Piarco and New York. Requirements are already defined	
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 BA of Agenda 3 of GREPECAS/13 Report):.				
12	i. Perform AMHS operation trials	USA, Trinidad & Tobago	Trial results	United States is planning a coordination meeting 3 rd quarter for the E/CAR and C/CAR	E/CAR NTG

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
13	ii. Evaluation of regional networks to support ATN Applications	States/ Territories coordinated by WG	Trial results 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.	Evaluation completed. Result is the implementation of the new E/CAR AFS Network	E/CAR NTG
14	iii. Update of Regional Plan for ATN ground-ground applications	States/ Territories coordinated by WG	Updates to Regional Plan for ATN ground-ground applications (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: http://www.mexico.icao.int/CNS.html		E/CAR NTG
15	iv. Review of CAR/SAM Regional Program for the implementation of the air – ground data links	States/ Territories coordinated by WG	Comments to this Regional Program E/CAR/WG members shall provide comments and observations to current CAR/SAM Regional Program for the implementation of the air – ground data links. Information available on: http://www.mexico.icao.int/CNS.html	States cannot comment at this time. They require more information and guidance material from ICAO	
16	v. A-G Applications trial Plans	States/ Territories coordinated by WG	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: http://www.mexico.icao.int/CNS.html	Dependent on # 15	
17	vi. Participate on training seminars and events	States/ Territories	Participation on events	Completed 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: http://www.mexico.icao.int/CNS.html	
18	Procure the application of management and coordination of frequency assignments and the implementation of tools for this goal.	ICAO	Frequency Management and coordination tools	ICAO is working on a Software application to facilitate frequency assignments coordination. An update to COM Lists 1, 2 and 3 will be available by August 2010.	

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
19	Implement management and coordination of frequencies with ICAO	States/ Territories	Comments to ICAO reviewed frequency assignment lists	Several E/CAR States participated in the NAM CAR SAM Regional Preparatory Meeting for WRC-2012 (NCSRPM). The conclusions of this event concerning frequency coordination and frequency interference procedures are available on the Meeting report: http://www.mexico.icao.int/CNS.html . On going. The CAAs work closely with spectrum/telecommunications management agency and ICAO to support the protection of the aviation band.	
20	Comments to management frequency tools provided by ICAO	Barbados, French Antilles, Trinidad & Tobago, ECCAA	Comments and evaluation of tools	COMPLETED. A new version will be developed based on comments received.	
21	Promote and coordinate diffusion of ICAO position for WRC-2012	ICAO	Promote ICAO position	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	
22	Participate and coordinate with their national spectrum regulation entities the support to ICAO position for the WRC-2012	States/ Territories	Support ICAO position in WRC-2012 related meetings	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: http://www.mexico.icao.int/CNS.html The CAAs work closely with spectrum/telecommunications management agency and ICAO to support the protection of the aviation band.	
NAVIGATION SYSTEMS					
1	Evaluation of required navigation infrastructure to satisfy the PBN based navigation requirements, identifying improvements and deficiencies	States/ Territories coordinated by WG	Analysis of required navigation infrastructure for example: DME-DME coverage for selected ATS routes for RNAV 5 Identification of deficiencies Corresponding corrective Action plan For the development of this task, operational PBN navigation specifications need to be defined.	Barbados- August 31 2010	
2	Development of a regional strategy for the implementation of navigation systems	GREPECAS CNS/ATM/SG	Regional Strategy for Navigation Systems	E/CAR States are invited to take note of this work to be developed by GREPECAS. Draft version presented in CNS/ATM/SG01 Meeting, available on Meeting report.	

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
3	Develop recommendations for training in GNSS elements	GREPECAS CNS/ATM/SG	recommendations for training in GNSS elements	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.	
4	Plans on GNSS systems (SBAS y GBAS) and trial conduction.	States/ Territories coordinated by WG	GNSS trial plan	E/CAR encouraged to join and become members of SACCESA and/or participate in trials with the existing WAAS/LAAS system with the United States. State letters previously issued by ICAO	
	SURVEILLANCE				
1	Evaluation of radar coverage and identification of improvements to satisfy operative requirements.	States/ Territories coordinated by WG	Identification of improvements and Respective Action Plan E/CAR States shall: 1. Evaluation of the existing SSR radar coverage in the E/CAR Subregion 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.	Completed. Result is the plans for radar sharing T&T, USA, Antigua, French Antilles, Barbados – this would cover the portion of the Piarco FIR with some overlap for redundancy	

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
2	Radar Data Sharing implementation	Barbados, French Antilles, Saint Lucia, Trinidad & Tobago	Agreements and implementation of radar data sharing	The Trinidad and Tobago Civil Aviation Authority (TTCAA) is still in the process of installing a new radar and ATM system and has expressed an interest in merging the Regional Radars at Piarco. However, we do not have the experience, nor have we considered the implications, financial and otherwise with our providers for this project. We are therefore not in a position at this time to initiate the hosting of the E/ CAR Radar Data Processing System. LOAs signed with BGI and SNA/AG. Successful testing of voice circuit completed at Piarco on 11 June. Setup solution to be conveyed to the French Antilles	
3	Evaluation of surveillance infrastructure to satisfy navigation requirements for PBN	States/ Territories coordinated by WG	Analysis of surveillance infrastructure 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.	United States- Michael Polchert – July 31 2010	
4	Implementation of 24 bits Address registry	States/ Territories coordinated by WG	24 bits Address registry 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 (http://www.mexico.icao.int/CNS.html).	ECCAA /Rudy Ashe-December 31, 2010	
5	ADS-B, ADS-C and MLAT trials	States/ Territories coordinated by WG	Trials on ADS-B, MLAT and ADS-C	Barbados advised that they completed survey to implement MLAT in BGI and continues studies for feasibility	
6	ADS-B cost – benefit analysis	States/ Territories coordinated by WG	ADS-B cost-benefit analysis	ICAO should provide this type of analysis	
7	<i>Development of a regional strategy for surveillance systems</i>	GREPECAS CNS/ATM/SG	Regional Strategy for Surveillance Systems	E/CAR States are invited to take note of this work to be developed by GREPECAS. Draft version presented in CNS/ATM/SG01 Meeting, available on Meeting report.	

No.	Action Description	Responsible	Deliverables	Results /Advances Made	Task Assigned To
8	Mode S radar implementation and update to Regional Plan on Surveillance Systems	States/ Territories coordinated by WG	Information on Mode S Radar implementation and updates to Regional Plan 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 http://www.mexico.icao.int/CNS.html.)	United States- Michael Polchert – July 31 2010. Combined with item # 3 and 4	

— END —