International Civil Aviation Organization
North American, Central American and Caribbean Office (NACC)
GREPECAS CAR Project D – ATN infrastructure in the CAR Region and its ground-ground and ground-air applications
Santo Domingo, Dominican Republic, 27 September 2013

Agenda Item 3:   **Other Business (AMHS training needs, coordination of D Project Tasks with AMHS Task force activities and reference for future D- Project tasks)**

AIR NAVIGATION IMPLEMENTATION WORKING GROUP (ANI/WG) AMHS TASK FORCE

(Presented by ICAO)

SUMMARY
This working paper shows the progress achieved in the air navigation activities in accordance to the NAM/CAR Regional Performance Based Air Navigation Plan (NAM/CAR RPBANIP) as presented to the Directors of Civil Aviation (DCA) Meetings and informs of the new structure of the Air Navigation Implementation Working Group (ANI/WG) with the creation of several Task forces particularly the AMHS Task Force to improve the timely and efficient implementation of the AMHS Systems in the CAR Region.

References:
• 24th Eastern Caribbean Directors of Civil Aviation (E/CAR/DCA/24), Meeting, Martinique, French Antilles, October 2012   • NAM/CAR Regional Performance Based Air Navigation Plan (NAM/CAR RPBANIP) http://www.mexico.icao.int/RegionalGroups/NAMCARRPBANIPV02May2011en.pdf

Strategic Objectives	*This working paper is related to Strategic Objectives:* *A. Safety – Enhance global civil aviation safety* *C. Environmental Protection and Sustainable Development of Air Transport*

1.   Introduction

1.1   In order to improve the efficiency and effectiveness of the existing mechanism of sub-regional working groups that supports the air navigation implementation, the Fourth Meeting of North American, Central American and Caribbean Directors of Civil Aviation (NACC/DCA/4) formulated Conclusion 4/9 - *Consolidation of Sub-Regional Working Groups in the CAR Region.*

1.2   In attention to this Conclusion, ICAO discussed the topic of the new proposed mechanism for the future support to the implementation of the Air Navigation Plan (ANP) implementation in the CAR Region during the different Meetings of Directors of Civil Aviation during 2012, concluding with the establishment of the new NAM/CAR Air Navigation Implementation Working Group (NAM/CAR ANI/WG).
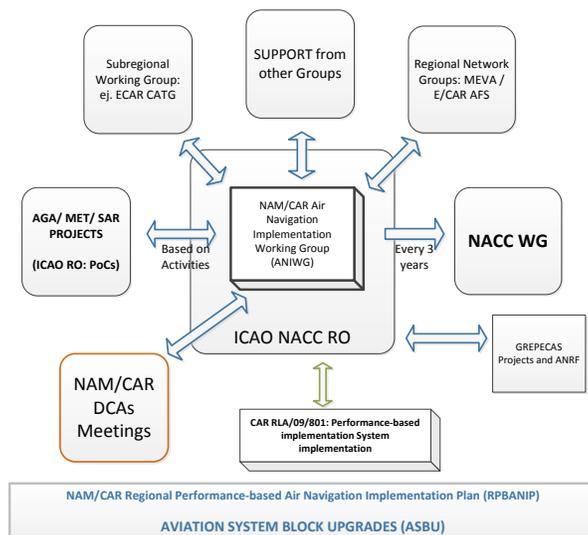
1.3   The establishment of the ANI/WG allows to:

a)   consolidate the three sub-regional groups (C/CAR/WG, E/CAR/WG and CA/ANE/WG) and incorporate the NAM Region with a geographical representation similar to the existing on the NACC Working Group (NACC/WG);

b)   limit the scope of work to those air navigation areas which are interrelated and integrated combining the areas of Air Traffic Management (ATM), Communications, Navigation and Surveillance (CNS) and Aeronautical Information Management (AIM);

c)   separate AGA, MET and SAR areas, so their work is based on its respective projects, but including these areas in the triennial meetings of the NACC/WG;

d)   hold at least 1 face-to-face meeting per year, as required; and

e)   work remotely between meetings, maximizing the use of correspondence and virtual meetings

1.4   The NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) was confirmed as the basis of the ANI/WG work programme.
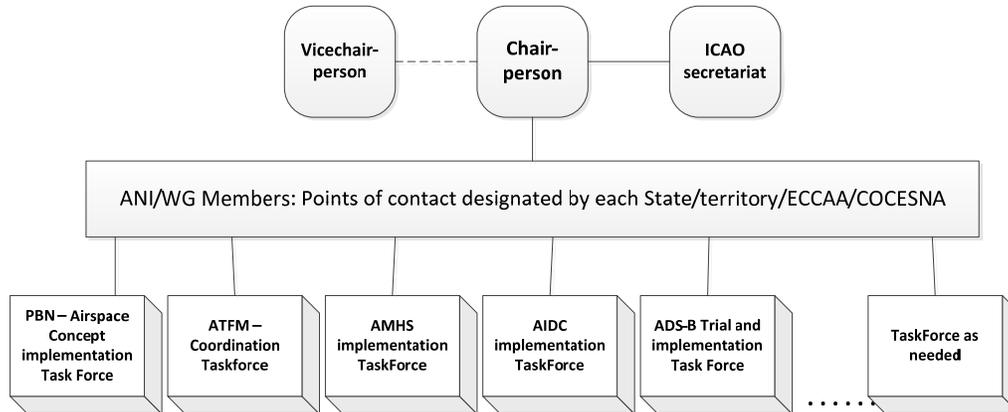
2.   RPBANIP Implementation Activities

2.1   As stated in the ANI/WG Terms of Reference (ToRs), the work coordination that the ANI/WG will have with the existing regional Air navigation implementation groups, projects and meetings shall be as follows: the ICAO NACC Regional Office will function as Secretariat and coordinator with the other groups and projects ensuring the alignment of the activities with the NAM/CAR Regional Performance-based Air Navigation Implementation Plan (RPBANIP), Aviation System Block upgrades (ASBU) and ICAO objectives as shown below:

2.2   Considering the existence of various Ad hoc Groups that were working in support of the implementation working groups, such as the ADS-B Ad hoc Group, the AMHS Implementation Group, etc., the Meeting considered necessary to group them under the ANI/WG structure, including any other specific implementation task group, with the aim of providing continuity. In this regard, seven topics that shall be developed through Task Forces under the ANI/WG were identified, and initial ToRs and preliminary membership were agreed upon. The Task Forces are as follows:

a) Task Force on Implementation of the Performance-Based Navigation (PBN) Airspace Concept
b) Task Force on Implementation of Air Traffic Flow Management (ATFM)
c) Task Force on Implementation of ATS Message Handling Systems (AMHS)
d) Task Force on Implementation of Automatic Dependent Surveillance – Broadcast (ADS-B)
e) Task Force on Implementation of Air Traffic Services Inter-Facility Data Communication (AIDC)
f) Task Force on Implementation of Aeronautical Information Management (AIM)
g) Task Force on Operational Analysis of the GOLD Document Version 2

2.3   In order to avoid the duplication and clarify any tasks of the D Project and the AMHS Task Force, the current Terms of Reference of the AMHS Task Force are shown in **Appendix A** to this paper. Similarly, in **Appendix B** to this paper, an explanation on how the documentation of this D-Project should be viewed in support of the AMHS Task Force is shown. Also following the Decision ANI/WG/1/3 - *Terms of Reference, Work Programme and Membership of the ANI/WG Task Forces*, the AMHS Task Force Members should review and update the ToRs and develop the work programme of the AMHS Task force.

3.   Suggested Action

3.1   The Meeting is invited to:

a) review and recommend updates to the AMHS Task Force ToRs in relation to the D Project Action Plan;
b) propose deliverables and actions for the AMHS Taskforce work programme;
c) analyze the cross reference relation of the documentation for the D Project and the AMHS TF matters; and
d) recommend any action for improving and making a more synergic work between the AMHS Taskforce and the D Project

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APPENDIX A
ATS MESSAGE HANDLING SYSTEM (AMHS) IMPLEMENTATION TASK FORCE

1. *Background*

1.1   During the first ANI/WG meeting, an AMHS Implementation Task Force was formed in order to streamline related air navigation implementation activities. This Task Force shall complete AMHS implementation in accordance with the Regional AMHS Implementation Plan as well as update and report progress to the ANI/WG based on the action plan for these tasks.

2. *Responsibilities*

The Task Force is responsible for:

   a)   Work Programme Management
   b) Coordination, implementation and trials of ATN ground applications/AMHS implementation (AMHS Regional Plan)
   c) Revising and updating the IPv4 address plan and other CAR Region technical implementation issues in accordance with ICAO technical principles and guidelines

3. *Working Methods*

The Task Force will:

   a) Present its work programme containing activities in terms of objectives, responsibilities, deliverables and timelines
   b)   Avoid duplicating work within the ANI/WG and maintain close coordination among the existing entities to optimize use of available resources and experience
   c) Designate, as necessary, ad hoc groups to work on specific topics and activities and organize clearly defined tasks and activities
   d) Coordinate tasks to maximize efficiency and reduce costs via electronic means including emails, telephone and teleconference calls, and convene meetings as necessary
   e) Report on and coordinate the progress of assigned tasks to the ANI/WG

4. *Work Programme* - will be included

5. Membership

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APPENDIX B
D PROJECT DOCUMENTATION

No.	Agenda Item	Title of Paper (or Agenda Item)	Related Project D deliverables	Related AMHS TF
WP/01	-	Approval of the Meeting Agenda and Schedule		
WP/02	1.1	Review Deliverables	• Overview of deliverables (completed, ongoing and rescheduled)	•
WP/03	1.**1**	Progress report presented to GREPECAS PPRC/2 Meeting	• Need for Project metrics/goals	
WP/04	1.2	Review, update, and complete transition plan for the evolutionary development of ATN and applications	• Plan for the transition of ATN and its applications in the CAR Region	
WP/05	1.3	Review and update Implementation Plan for ATN Ground-ground applications (AMHS)/ Results of III AMHS Workshop	• AMHS addressing plan • Plan for the implementation of ATN ground-ground applications (AMHS) • Plan for the implementation of ATN ground-ground applications (AIDC)	
WP/06	1.4	Review coordination and test for ATN ground applications implementation		• Coordination, implementation and trials for ATN ground applications/AMHS implementation (AMHS Regional Plan)
WP/07	1.5	Evaluation and recommendations on the AMHS coordination and implementation.		• Revise and update the IPv4 address plan and other technical implementation issues for the CAR region in accordance with ICAO technical principles and guidelines.
WP/08	2.1	Revise/Update of CAR/SAM Router Plan	• Study for the configuration of an IP backbone network	•
WP/09	2. 2	Initiate Plan for an IP ATN CAR backbone network configuration- Review of IPv4 Addressing Scheme	• Study for the configuration of an IP backbone network	•
WP/10	3	Identification of training needs on AMHS implementation		• Coordination, implementation and trials for ATN ground applications/AMHS implementation (AMHS Regional Plan)
WP/11	3	ANIWG AMHS Task Force (ICAO)		Start AMHS TF tasks- work programme
IP/01	3	GOLD Document (ICAO)		For future deliverables – see below

Rescheduled Project deliverables due to external inputs:

- o Study of communication requirements to support ATFM implementation

- o Study of communication requirements to support the migration to the new OPMET format

Need to quick agreements for future Project deliverables:

- o Assessment and recommendations guide for the ATN applications ground-air implementation according to Doc GOLD

- o Plan for the transition of ATN ground-air applications

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