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WORKING PAPER

C/CAR/DCA/14 — WP/10
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Fourteenth Directors of Civil Aviation of the Central Caribbean Meeting (C/CAR/DCA/14)
Kingston, Jamaica, 11 to 13 May 2015

Agenda Item 4: Air Navigation Matters

4.2 Review of the Implementation of Air Navigation under the NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) and the Aviation System Block Upgrades (ASBU) Methodology

4.2.2 Results and Progress of the North American, Central American and Caribbean Air Navigation Implementation Working Group (NAM/CAR ANI/WG)

PROGRESS ON THE NAM/CAR AIR NAVIGATION IMPLEMENTATION WORKING GROUP (ANI/WG)

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
<p>This working paper presents the progress achieved by the ANI/WG since its creation in the First NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/1), as well as the outcomes and expectations from the ANI/WG/2 Meeting to be held in Costa Rica in June 2015.</p>	
Action:	The suggested action is presented in Section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"> • Safety • Air Navigation Capacity and Efficiency • Environmental Protection
<i>References:</i>	<ul style="list-style-type: none"> • NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (NAM/CAR RPBANIP) Version 3.1 • First NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/1), Mexico City, Mexico, 29 July to 1 August 2013 • Fourth North American, Central American and Caribbean Working Group Meeting (NACC/WG/4), Ottawa, Canada, 24 to 28 March 2014 • Second NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/2), Puntarenas, Costa Rica, 1 to 4 June 2015

1. Introduction

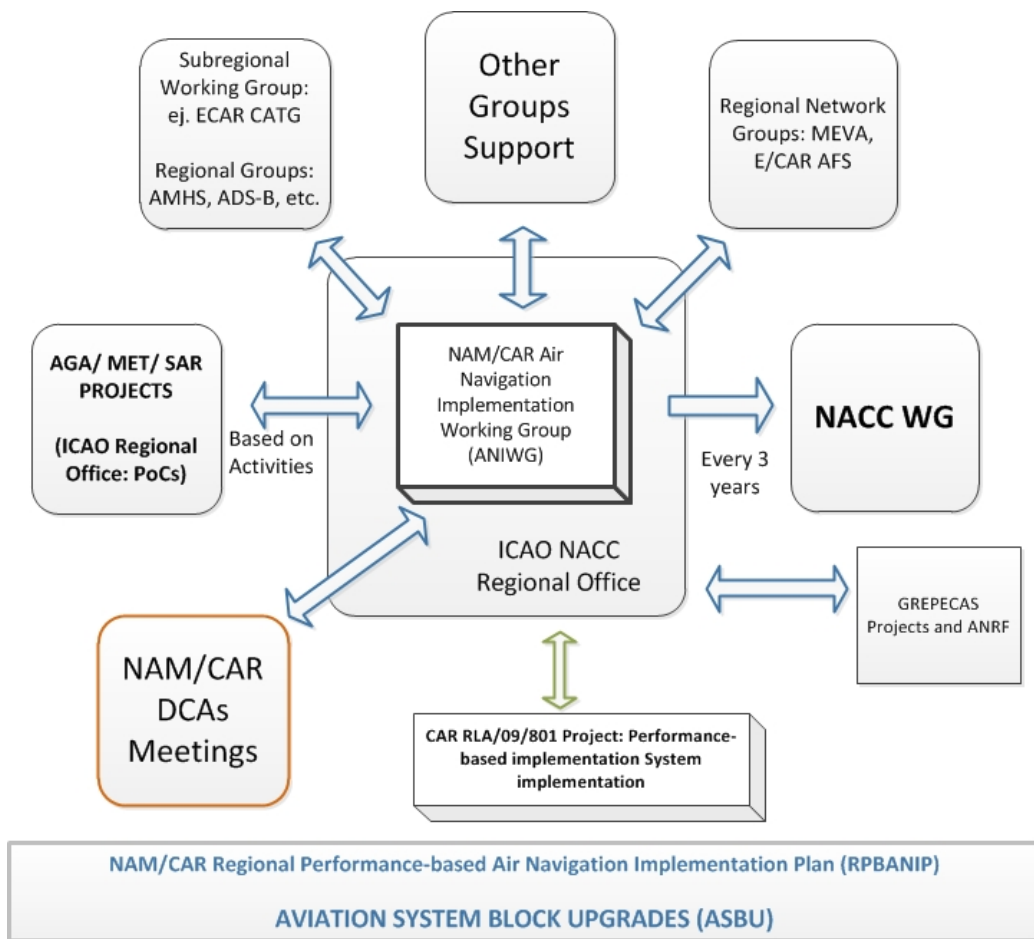
The ANI/WG was established in response to Fourth Meeting of North American, Central American and Caribbean Directors of Civil Aviation (NACC/DCA/4) Conclusion 4/9 - *Consolidation of Sub-Regional Working Groups in the CAR Region* and endorsed by all NAM/CAR Directors in 2012 through their respective sub-regional DCA Meetings.

1.2 The objective of the ANI/WG is to consolidate the existing sub-regional working groups, reduce the number of meetings, avoid duplication, expedite work progress, and improve regional harmonization focused on the Air Traffic Management (ATM), Communications, Navigation and Surveillance (CNS) and Aeronautical Information Management (AIM) air navigation fields.

1.3 Although the ANI/WG did not meet in 2014, the implementation activities and their follow-up were made through the NACC/WG/4 Meeting.

2. ANI/WG Progress

2.1 The ANI/WG according its Terms of Reference (ToRs), works with all the sub-regional implementation groups as indicated in the following figure:



2.2 During the NACC/WG/4, a follow-up on the implementation activities or air navigations aspects was made, including the ANI/WG assignments in its fields: ATM, AIM and CNS, whose progress is reflected in various NACC/WG Conclusions.

2.3 The ANI/WG through its Task Forces as established in the *Port-of-Spain-Declaration* and the NAM/CAR Regional Performance Based Air Navigation Implementation Plan (RPBANIP) followed-up on the progress in the implementation of several regional priorities such as: Performance-Based Navigation (PBN), Flexible Use of Airspace (FUA), Air Traffic Flow Management (ATFM), Data Link application (GOLD), Automatic Dependent Surveillance – Broadcast (ADS-B), Aeronautical Message Handling System (AMHS) communication improvements, automation achievements, etc. The ANI/WG activated the following Task Forces (TF):

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

2.4 Since the NACC/WG/4 Meeting, the ANI/WG held two follow-up teleconferences to the tasks assigned, highlighting the concerns identified and the planned activities as follows:

- a) **ADS-B:** The last meeting was held last year, where two Ad hoc groups were formed on Concept of Operations (CONOPS) and Technical specification for ADS—B, which will be completed in the upcoming ADS-B Implementation meeting to be held at the end of April 2015, in which the ADS-B implementation status in the NAM/CAR Regions will be reviewed. The CONOPS and the technical specifications proposals will be presented in the upcoming ANI/WG/2.
- b) **AMHS:** AMHS implementation has been conducted mainly as bilateral activities and following the regional Implementation Plan. The Project RLA/09/801 — *Implementation of Performance Based Air Navigation Systems for the CAR Region* has supported the implementation with an assistance mission (*Go-Team*) to Curacao and another is scheduled for Mexico in 2015. The Rapporteur commented that the MEVA Network activities have occupied most of the time, however, she will seek to convene a follow-up teleconference shortly. An Aeronautical Telecommunication Network (ATN) Application workshop is scheduled for October 2015, where AMHS will be discussed.

- c) **AIDC:** Under the AIDC TF, an Ad hoc Group on resolving/mitigating Filed Flight Plan (FPL) problems was created. A set of suggested actions were submitted to the States, and as a result of the meeting held in February 2015 at ICAO NACC Regional Office, guidances and the development of a second phase were agreed prior to the ANI/WG/2 Meeting. AIDC activities have progressed on implementing the NAM Interface Control Document (ICD) and with the support of two *Go-team* missions on AIDC for Dominican Republic and COCESNA. The status of the AIDC implementation in the NAM and CAR Regions was reviewed.
- d) **GOLD (Controller-Pilot Data Link Communication (CPDLC)- Automatic Dependent Surveillance - Contract (ADS-C)):** A checklist on this implementation was made for the CAR States that plan CPDLC and ADS-C implementation (Curacao, Mexico, Trinidad and Tobago and COCESNA).
- e) **PBN:** Recently, the Task Force conducted a teleconference to review its work programme and the 2014 events (PBN *Go-team* in Trinidad and Tobago, PBN Procedure design course in December 2014, PBN survey in August 2014). Currently, they are working on the definition of the new version of the PBN airspace concept to be presented in the ANI/WG/2 Meeting.
- f) **AIM:** Work on-going. A *Go-team* mission was conducted to Haiti in November 2014, with the assistance of Cuba and COCESNA. A Follow-up teleconference will be carried out shortly.
- g) **ATFM** (provided by ANI/WG Chairman): A new Rapporteur has been appointed, Mr. Leonard Carter from United States. The ATFM TF has been participating in different activities, like the 8th Air Traffic Flow Management Global Conference, held in Mexico on 15 November 2014, followed by a teleconference on 25 November 2014, and they also scheduled another teleconference on 28 January 2015. The TF is running a survey with the purpose of collecting information and develop a regional baseline of current Air Traffic Flow Management (ATFM) initiatives within the NAM and CAR Regions and the future ATFM planning activity and interoperability between Air Navigation Service Providers (ANSPs). The results of this survey would be reviewed in the next teleconference.

2.5 For the ANI/WG/02 Meeting, the implementation progress will be consolidated in accordance to the RPBANIP, reporting through the Air Navigation Report Form (ANRF) specifically on the regional targets of each Aviation System Block Upgrade (ASBU) module of Block 0. Likewise, a review of ta tasks will be conducted for the inclusion of new tasks to streamline the air navigation implementation as in the Unmanned Aircraft system(s) (UAS) tasks and the related jobs to the Global Navigation Satellite System (GNSS).

2.6 Although, several States/Territories have designed their ANI/WG representatives through the different Task Forces, there is a lack of a major representation of the Central Caribbean by each State as stated in the current ANI/WG membership: <http://www.icao.int/NACC/Documents/RegionalGroups/ANIWG/PocsMembership.pdf>.

2.7 The ANI/WG website presents the action plans and the Terms of Reference (ToRs) of this group, as well as additional information and details of its second Meeting including the Draft Agenda, at: <http://www.icao.int/NACC/Pages/nacc-regionalgroups-aniwg.aspx>

3. Suggested Actions

3.1 The C/CAR States are invited to:

- a) take note on the progress information reported by the ANI/WG;
- b) review and designate their PoC for the ANI/WG;
- c) based on the ANI/WG ToRs, to assign any other required tasks for the air navigation implementation; and
- d) agree any other action as deemed necessary.