



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

WORKING PAPER

ANI/WG/5 — WP/07
21/05/19

Fifth NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/5)
Mexico City, Mexico, 27 to 31 May, 2019

- Agenda Item 2:** **2.1 Follow-up and performance and monitoring assessment of the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP)**
- 2.1.1 Progress reports of the Task Forces of the ANI/WG. States' implementation status**

ADS-B IMPLEMENTATION IN THE NAM/CAR REGIONS

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This Working Paper presents a summary of the discussions and recommendations resulting from the Automatic Dependent Surveillance – Broadcast (ADS-B) Implementation and Regulation Meeting for the NAM/CAR/SAM Regions (ADS-B/LEG), held in Mexico City, Mexico, from 26 to 30 November 2018.	
Action:	Suggested actions are presented in Section 4.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• Automatic Dependent Surveillance – Broadcast (ADS-B) Implementation and Regulation Meeting for the NAM/CAR/SAM Regions (ADS-B/LEG) Final Report

1. Introduction

1.1 During the last two years, NAM/CAR/SAM regions have been working jointly in the ADS-B implementation and in all the activities that its implementation entails.

1.2 The ADS-B implementation also requires the technical and operative implementation of the system and other kind of requirements like aircraft certification, the publication of requisites and, over all, the development of timely regulation for users can make the correct use of this technology.

1.3 The inclusion in this ADS-B implementation project of Annexes 2, 11 and PANS/ATM (Doc 4444) to ensure the ADS-B operative implementation process, Annexes 4 and 15 to ensure the publication in the States of its implementation and regulations, and the complete Annex 10 to ensure the CNS infrastructure that supports the implementations requisites.

1.4 As a result of the discussions of the aforementioned meeting, the following recommendations were made.

2. ADS-B Implementation

2.1 It is recommended that for the ADS-B implementation the States take into account the following recommendations:

- A preliminary evaluation of the service implementation integrating and analysis of this service with all the stakeholders, evaluation data, risk analysis, among others.
- The implementation of any surveillance system should assure having done all the coverage analysis to fulfil the requirements in this matter.
- Identify the operational objectives prior to the development of any project and ensure that operational benefits are achieved after implementation.
- The States must ensure that they will integrate their projects with adjacent States and their coordination and interconnection requirements to achieve goals within their projects.

2.2 The need for States to have 100% short-term surveillance coverage in continental operational areas and oceanic areas in which they provide control services; in this way, they will promote safety, making both ground and satellite ADS-B a mechanism to achieve this goal in the short term.

3. ADS-B Regulation

3.1 A fundamental point of the ADS-B implementation is the development of a correct aeronautical regulation that normalizes its operational implementation. In this regard, the States were recommended to analyse in the short-term how their operations are affected by the ADS-B implementation, either by its own implementations or due to its implementation in the adjacent States to its operations. This analysis must include how their operations are affected due to the mandatory use of the ADS-B by United States by January 2020.

3.2 ADS-B implementation is one of the factors that will support the implementation of other operative facilitators and to reach regional security and efficiency objectives.

3.3 In this regard, and as part of the work of the SURV Task Force, it has been planned the documentation development that will support the regional implementations, such as:

1. Review and update of the Surveillance CONOPS, currently led by United States with the support of Cuba, Dominican Republic, COCESNA and IATA.

2. Feasibility use of satellite ADS-B, led by the Dominican Republic. This activity has the objective of developing a feasibility study of the use of satellite ADS-B in the CAR Oceanic regions and other areas in which other types of surveillance systems cannot be implemented.

4. Suggested actions

4.1 The Meeting is invited to:

- a. The States that are in the ADS-B implementation process, aligned with the regional goal of 1 January 2020, publish its regulations no later than 30 October 2019; and
- b. The States that have not done this yet, carry out the analysis of how their operations can be affected by the ADS-B implementation in the adjacent States and take the necessary measures to carry out the required actions.