



ICAO

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North American, Central American and Caribbean Office

INFORMATION PAPER

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**Fourth North American, Central American and Caribbean Working Group Meeting  
(NACC/WG/4)**

Ottawa, Canada, 24 to 28 March 2014

**Agenda Item 3: Follow-up on the NAM/CAR Regional Performance-Based Air Navigation  
Implementation Plan (NAM/CAR RPBANIP) Progress  
3.3 ANI/WG and other regional group progress reports**

**ATFM PROGRESS IN CENTRAL AMERICA**

(Presented by COCESNA)

<b>EXECUTIVE SUMMARY</b>	
This paper presents information about the aspects of progress and achievements in the ATFM Implementation in Central America.	
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"><li>• Safety</li><li>• Air Navigation Capacity and Efficiency</li><li>• Environmental Protection</li></ul>
<i>References:</i>	<ul style="list-style-type: none"><li>• ATFM Implementation in Central America Project</li></ul>

**1. Introduction**

1.1 Central American States were urged to initiate, under the coordination of COCESNA, actions relating to the implementation of a sub-regional ATFM system for the Central American FIR considering for this purpose the guides and guidelines of ICAO as well as the tasks and implementation program to be agreed in the CAR/SAM regions.

1.2 Additionally, they were asked to continue the coordination with States, NACC Regional Office of ICAO and other International organizations, aircraft operators, other ATFM units and related entities within a cooperative framework with the aim of establishing an effective ATFM system, insurance and highly beneficial.

**2. Tasks performed in collaboration**

2.1 As part of the implementation of ATFM in Central America process, COCESNA has taken the following actions:

- Established a project for the implementation of ATFM in Central America, counting with human resources, technological and economical contribution necessary;

- Designated a Working Group for ATFM implementation in Central America (GT/ATFM/COCESNA);
- Developed an Action Plan for the implementation of ATFM in Central America.
- Is part of the Working Group ATFM CAR/SAM;
- It has contributed significantly in the development of ATFM Operational Concept for the CAR/SAM Region, making analysis and evaluation of the operations of international airports of the CAR/SAM, determining the growth trend of air operations during the period 2002/2007;
- Participated in various meetings, workshops and seminars related to the ATFM, including the Third Global Conference on ATFM, in September 2005 in Canada;
- Acquired a basic set of equipment and accessories, establishing a working position for assessment of the data that COCESNA radars provide and ETMS system;
- Established an agreement with the United States to exchange radar data through the ETMS system, currently operating in the Control Center CENAMER (CENAMER ACC/FIC) and ATFM room;
- In 2008 and 2009 participated in several regional CAR/SAM meetings to define agreements and methodologies for ATFM implementation;
- In 2010 the basic organizational structure is proposed, for the purchase of the required equipment that will be implemented at the major airports in Central America.

### 3. **Training and participations relating to ATFM**

3.1 In order to follow up and update staff on ATFM material, COCESNA has had the opportunity to participate in or support the following events:

- Seminar / Workshop on ATFM for States of the CAR Region, which was held in March 2006 in Tegucigalpa, Honduras was organized;
- From 20 to 24 August 2007, ATFM Course for CENAMER ATS personal at COCESNA's headquarters;
- From 26 to 30 November 2007, an ATFM Course was imparted , aimed to train the operative ATS personnel from the Central American States and COCESNA was held at the COCESNA's headquarters;
- From 11 to 15 June 2009, ATFM Course for ATS personnel in Dominican Republic;
- From 26 to 30 June 2009, ATFM Course for ATS personnel in Dominican Republic;
- From 24 to May 27, 2011 Seminar/Workshop ATS capacity and airport services; and
- From 7 to 11 November 2011, ATFM Course at the offices of the General Direction of Civil Aviation Tegucigalpa, Honduras.

#### **4. ATFM important achievements in Central America**

4.1 ATFM training of the staff would not be complemented without the support and resources, which by way of achievements can be summarized as follows:

- Installation of hardware for the ATFM Center for the Upper Information Region headquarters in COCESNA, Honduras.
- Installation of hardware for the sub ATFM center in Costa Rica.
- Installation of hardware for one FMP (ATFM) in the Approach control unit in Tegucigalpa, Honduras;
- Installation of hardware for the sub ATFM center in Guatemala.
- Purchase of the hardware for the sub ATFM center in El Salvador.
- The development of an application for Air Traffic Flow Management by the Engineering Unit in COCESNA. This application uses the existing network (AFTN), to transmit secure communications with a low cost, making this ATM system an efficient and interoperable among providers of air navigation services, which possess the tool for flight information exchange.

#### **5. Suggested action**

5.1 The Meeting is invited to:

Consider the contents of this information paper.