



Agenda Item 3: Implementation of Air Traffic Flow Management (ATFM) and improvement of procedures for flow coordination between agencies

IMPLEMENTATION OF THE SOUTH AMERICAN REGIONAL MANAGEMENT

(Presented by Brazil)

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| SUMMARY | |
| This working paper presents to the meeting the current state of ATFM implementation for the SAM Region, at the initiative of the Air Navigation Management Center (CGNA). We offer means and structures in the interconnection process between the States of the region and the management South American Regional. | |
| REFERENCE | |
| <ul style="list-style-type: none">• Report of the 22th - Twentieth Second Workshop/Meeting- of the SAM Implementation Group (SAM/IG/22). | |
| ICAO Estrategic Objectives: | <i>A – Operational Safety B – Capacity and efficiency of air navigation</i> |

1. Introduction

1.1. The need to manage the traffic flows of the SAM Region is notorious through the seasonal and international events that occur in our region with growing demand. Nevertheless, we have experienced contingency situations, within which, flow Management coordination has been adopted by several communication channels in isolation or through extraordinary Briefings of the CADENA.

1.2. The Brazilian Administration, aware of the operational impacts that such conditions can generate and the request for collaboration by the EANA in relation to the international event G-20, implemented the South American Regional Management (SRM) in November 2018.

1.3. Therefore, the actions were taken by the Brazilian administration so that the coordination was carried out via telephone and e-mail made available and exclusive to meet the international coordination.

1.4. Based on this first moment, the Brazilian Administration identified the need to bring to the meeting this note so that this management is of broad knowledge of the entire SAM Region.

2. Discussion

2.1. The implementation work began in November 2018, with the realization of technical and operational meetings whose objective was to survey the current situation and identify the main needs and purpose.

2.2. The Brazilian administration identified the main actors involved in the implementation, such as the South American States and the DECEA.

2.3. The automated systems used in the South American management are:

- **SIGMA:** Integrated management and air handling system, main tool for analysis of demand and capacity, which allows SRM (South American Regional Management) to check with any unbalance in the airspace under the jurisdiction of Brazil, in addition to allowing the follow up of the entire aerial mesh on overflight to airspace; and
- **TATIC Flow:** A flow Management support system that is interconnected to the ATC members throughout Brazil which have TATIC TWR.

2.4. SRM is operating 24 hours at CGNA, guarded by a flow manager specializing in flow management and specialist in air traffic control in conditions of conducting international coordination with the countries of the SAM region. It is important to emphasize that during the G-20 event in Argentina, coordination was conducted among Brazil, Argentina and Uruguay, ATFM measures were implemented in ways that the countries involved in the coordination had their flows continued without any unbalanced, since the measures were applied within the Brazilian airspace.

2.5. The desired scenario contemplates the adoption of a flow management for the SAM Region, within which the DECEA/CGNA is available, with the ready technical and operational means, where information can be centralised and made available in a way Collaborative in a CDM environment.

2.6. Centralized flow management will allow a significant reduction in the workload of ATC members and a management of information in ways that collaborative decision making will directly contribute to the efficiency in the use of the SAM region's airspace.

2.7 The implementation strategy is based on the following phases:

- a) Phase 1: Meeting between interested States in order to establish the ATFM agreements;
- b) Phase 2: Process regulation;
- c) Phase 3: Training and simulation; and
- d) Phase 4: Consolidation, practice and follow up.

3. **Suggested actions**

3.1 The Meeting is invited to:

- a) Take note of the information provided by this study note; and
- b) Discuss the improvements coming from the implementation of a flow management unit for the SAM Region under aspects of partnerships and collaborative decision making.