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**International Civil Aviation Organization
South American Regional Office**

**FIRST WORKSHOP/MEETING OF THE SAM IMPLEMENTATION GROUP (SAM IG/1)
REGIONAL PROJECT RLA/06/901**

Lima, Peru, 21 to 25 April 2008

Agenda Item 2: Implementation of air traffic flow management (ATFM) in the SAM Region.

**REQUIREMENTS FOR THE DEVELOPMENT OF GUIDELINES FOR IMPLEMENTATION
OF AIR TRAFFIC FLOW MANAGEMENT (ATFM) IN SAM REGION, THROUGH THE
HIRING OF EXPERTS**

(Presented by Secretariat)

Summary

The purpose of this working paper is to present a proposal to hire the number of experts necessary for the development of material for ATFM implementation, including guidelines for SAM States and International Organizations application.

References:

- RLA/06/901 Project
- AP/ATM Meeting Report, Project RLA/98/003

1 Background

1.1 The experience acquired in AP/ATM meetings in RVSM and RNAV routes implementation, as well as in the development of PBN Road Map and other guidelines, were a considerable success in the CAR/SAM Regions, leading air navigation to a new safe and efficient scenario.

1.2 Furthermore, the GREPECAS ATM/CNS Subgroup ATM Committee ATFM Task Group developed the ATFM Concept of Operations, which will be the basis for its implementation and harmonisation of CAR and SAM Regions implementation.

1.3 However, the development of necessary material for the aforementioned implementations, was obtained through the contribution of some participants of AP/ATM meetings and of the GREPECAS ATM/CNS Subgroup ATM Committee ATFM Task Group. The complexity of RLA/06/901 project tasks will not allow that this work model continue, considering that experts involved in meetings do not have exclusive dedication to a particular project and normally are in charge of other activities in their respective administrations.

1.4 The SAM Region ATFM implementation will demand the development of guidance detailed material for States and International Organizations, considering , mainly, three aspects:

- a) Experience analysis of other regions
- b) Obtain and complete information, considering present situation of States and International Organizations participating.
- c) Obtain and complete information, considering present situation of States and International Organizations participating, related to electronic data bases required for the evolved phases of ATFM system.

2. ATFM Tasks for RLA/06/901 Project

1.5 Under Objective N° 1, item 1.2, Project RLA/06/901 establishes the tasks that will have to be performed in the ATFM area. For a better reference, ATFM tasks that should be carried out in 2008, are included in **Appendix A** to this working paper.

1.6 Considering that the development of appropriate “deliverables” should be discussed in the Second Meeting of the Implementation Group (SAM/IG/2), Project RLA/06/901 should hire the necessary experts in order to perform tasks of items 1.2.1 and 1.2.2.

2 Suggested action

2.1 The meeting is invited to:

- a) Review and agree the activities that will be assigned to experts involved in items 1.2.1 and 1.2.2 of Appendix A of this working paper, recommending the appropriate changes considered pertinent; and
- b) Once the consultant task is concluded, results are to be presented to the SAM/IG/2 Meeting.

APPENDIX A

Activities to be carried out by the expert within Project RLA/06/901 with regard to ATFM

<p>1.2 Regional implementation of air traffic flow management (ATFM) wherever necessary to improve airspace capacity and operational efficiency - (GPI 6)</p>	<p>1.2.1 Obtain and complete the information, learning about the current status in the participating States and organisations with respect to:</p> <ul style="list-style-type: none"> a) The methods for estimating airport and ATC capacity; b) ATFM procedures for the following phases: <ul style="list-style-type: none"> ✓ Airport strategic ✓ Airport tactical ✓ Airspace strategic ✓ Airspace tactical <p>Start-up date: week 12 Estimated duration: 1 week</p>	<p>ATM, AGA, RO</p>
	<p>1.2.2 Obtain and complete the information, learning about the current status in the participating States and organisations of the electronic databases required for the ATFM evolutionary phases, in relation to the following aspects:</p> <ul style="list-style-type: none"> a) Flow management data processing and display: <ul style="list-style-type: none"> ✓ Flight planning and flight plan processing data (FPL, RPL, etc.); ✓ Airspace and airport structure data; ✓ Display of the situation in the air; ✓ Automatic messages to support decision-making (access to SLOTS, reporting of delays, alternate routes, etc.); ✓ Monitoring of the operational status of air navigation infrastructure; ✓ Capacity of the airport acceptance regime (AAR); ✓ ATC capacity; ✓ Air traffic demand; ✓ Airspace structure and ATS route network; ✓ Radio navigation aids, radar, etc.; ✓ Aircraft performance. b) Surveillance system data (SSR, ADS, etc.); c) AIS/MAP (mapping, ATFM advisories, AIRAC updates, etc.); d) Meteorological information (MET); 	<p>ATM, AIS, AGA, CNS, MET, RO</p>

	<p>e) Data for historical and statistical analysis of air operations, meteorology, etc.;</p> <p>f) Communication systems in support of collaborative decision-making (CDM) with:</p> <ul style="list-style-type: none">✓ Other centralised ATFM systems;✓ Other FMUs and/or FMPs and/or ATS units;✓ Operators and users (airlines, general aviation, State aircraft, etc.);✓ Airport authorities;✓ Meteorological authorities;✓ Aeronautical information services. <p>g) The necessary communication requirements to effectively support centralised air traffic flow management in its linkage with:</p> <ul style="list-style-type: none">✓ Other centralised ATFM systems;✓ FMUs, FMPs and/or ATS units involved;✓ Operators and users;✓ Airport authorities;✓ Meteorological authorities;✓ Aeronautical information services;✓ The transmission of ADS and radar data to the ATFM. <p>Start-up date: week 13 Estimated duration: 1 week</p>	
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