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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 3: Assessment of operational requirements in order to determine the implementation of improvement of communications and surveillance (CNS) capabilities for en-route and terminal area operations.**

**PROPOSED TERMS OF REFERENCE AND WORK PROGRAMME FOR SAM REGION  
COMMUNICATIONS AND SURVEILLANCE (C-S) CAPACITIES IMPROVEMENT FOR EN-  
ROUTE AND TERMINAL AREA IMPLEMENTATION WORKING GROUP (SAM/C-S/IWG)**

(Presented by the Secretariat)

**Summary**

The objective of this working paper is to present a proposal for the SAM Communications and Surveillance (C-S) Implementation Working Group terms of reference and work programme, which shall be focused in the analysis of the material produced by experts hired by Project RLA/06/901, mainly in the guidelines for use of SAM States and International Organizations.

**References:**

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

**1 Background**

1.1 The complexity of the tasks to be developed by the SAM CNS implementation Group, to implement improvement and communications, and surveillance (C-S) capacities for en-route and terminal area operations, will lead to the need for the creation of a specific group, with the main objective to evaluate the guidance material developed by experts hired by Project RLA/06/901.

1.2 The SAM Region Communications and Surveillance (C-S) Capacities Improvement for En-Route and Terminal Area Implementation Working Group (SAM/C-S/IWG) Terms of Reference and Work Programme shall establish a group for the drafting of documentation, in order to prepare the documents for its meetings, in addition to the material drafted by experts hired by Project RLA/06/901, and with the support of the Secretariat, to prepare the report related with communications and surveillance issue of each SAM/IG meeting.

## 2 **SAM CNS Implementation Group Terms of Reference and Work Programme**

2.1 **Appendix A** to this working paper presents a proposal for the SAM Region Communications and Surveillance (C-S) Capacities Improvement for En-Route and Terminal Area Implementation Working Group(SAM/C-S/IWG) Terms of Reference and Work Programme.

## 3 **Suggested action**

3.1 The meeting is invited to review the terms o Terms of Reference and Work Programme shown in Appendix A to this working paper, and if deemed pertinent, recommend the necessary changes.

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## **APPENDIX A**

### **PROPOSED TERMS OF REFERENCE AND WORK PROGRAMME FOR THE SAM REGION COMMUNICATIONS AND SURVEILLANCE (C-S) CAPACITIES IMPROVEMENT FOR EN-ROUTE AND TERMINAL AREA IMPLEMENTATION WORKING GROUP (SAM/C-S/IWG)**

#### **1. TERMS OF REFERENCE**

Develop specific studies and guidance material for RNAV/RNP implementation of communications and surveillance system, to support improvement implementation in the SAM Region ATM System, according to the ICAO Strategic Objectives and Global Plan Initiatives (GPI) on this matter (GPI 6, 7, 9, 17, 18, 19 and 22).

#### **2. WORK PROGRAMME**

- a) Identify ATM requirements and draft a strategy for the implementation of communications and surveillance improvements in the SAM Region.
- b) Develop a Action Plan Model for communications and surveillance capacities implementation for en-route and terminal area operations.
- c) Follow-up of the implementation of the communications and surveillance capacities for en-route and terminal area operations.
- d) Analyse GNSS application for support in all flight phases, including:
  - ground navigation infrastructure required for operations foreseen in the CAR/SAM PBN Roadmap in function of the progress of GNSS technology.
  - application of the GNSS to attend en-route operations without using precision values; with RNAV-5 (continental airspaces) and with RNP-4 (oceanic airspaces); in TMA (RNAV 1) and in Approach (RNP 0,3 and RNP AR), with ABAS.
  - operational benefits of the SBAS use, taking into account the effects of the GALILEO implementation and frequency L5 in GPS and probable implementation dates.

#### **3. COMPOSITION**

TBD

#### **4. RAPPORTEUR**

TBD