



International Civil Aviation Organization

CAR/SAM Regional Planning Implementation Group (GREPECAS)

Fourteenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/14)

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Agenda Item 3: Assessment of development of regional air navigation and security infrastructure

TECHNICAL COOPERATION REGIONAL PROJECT RLA/06/901 FOR THE ASSISTANCE IN THE IMPLEMENTATION OF AN ATM REGIONAL SYSTEM ACCORDING TO THE ATM OPERATIONAL CONCEPT, AND THE CORRESPONDING TECHNOLOGICAL SUPPORT FOR COMMUNICATIONS, NAVIGATION, AND SURVEILLANCE (CNS).

(Presented by the Secretariat)

SUMMARY

This information paper contains background information on the development of a new technical cooperation instrument to provide support to the States of the region in the implementation of an ATM regional system.

1. Introduction

About project RLA/98/003 Transition of CNS/ATM ICAO Systems

1.1. The objective of project RLA/98/003, funded by 15 countries of the CAR and SAM regions, was to provide support to the States in the implementation of the new communication, navigation and surveillance/air traffic management (CNS/ATM) systems in accordance with CAR/SAM regional implementation Plan and guidelines and methods recommended by ICAO. It was initiated in 1998, with a planned duration of 3 years, prolonged up to 2006. Project operations constituted an important instrument in restructuring ATS routes network through air navigation routes (RNAV), which involved the implementation of 64 RNAV routes, realigning/extension of 44 ATS routes, elimination of 19 ATS routes, and the implementation of 12 segments of ATS routes, as well as the implementation plan of the reduced vertical separation minima (RVSM) and the implementation of the required navigation performance (RNP 10) in the segment Santiago de Chile-Lima. This represented better operational safety and efficiency levels. Regular practical and theoretical meetings and seminars organized and promoted by the project for such effects contributed in a significant manner to improve the regional coordination.

1.2. Project RLA/98/003 also developed the document “Transition Plan towards ATM System in the CAR/SAM Regions”, which constitutes an important guideline on this matter for the following years. In addition, a software tool known as Planning and Evaluation Tool (PET) was distributed to all the States. Three seminars on CNS/ATM systems institutional aspects were carried out, as well as assessments to support the GREPECAS Institutional Aspects Task Force on possible alternatives of institutional arrangements to implement multinational services/installations in support of Regional/Global ATM, consultancy missions to the States to verify the status of implementation of the WGS-84 world geodesic system and aeronautical information issues, providing training regarding these issues to more than 150 specialists among 1,400 professionals of the CAR and SAM regions who participated in different

seminars and workshops organized by the project. The implementation of a regional platform to support ATM automation was initiated by the project.

Project RLA/06/901 Implementation of an ATM regional system

1.3. The Ninth Meeting of South American Civil Aviation Authorities (RAAC/9), celebrated in Santiago de Chile, from 18 to 20 April 2005, while analyzing the results of Project RLA/98/003 on the Transition to CNS/ATM Systems in the CAR and SAM regions and the AN-Conf/11 conclusions, considered necessary the establishment of a new technical cooperation regional project to provide guidance to SAM States in the implementation of a regional ATM system, considering the world ATM operational concept and the corresponding CNS support.

1.4. Attending this requirement, a project document was designed, which immediate objectives are directly linked to ICAO strategic objectives and to the corresponding measures suggested to attain them.

1.5. At the end of the project, a coordinated planning and homogeneous implementation of different initiatives considered in the air navigation world plan are expected to be achieved in the CAR/SAM regions, as well as the exchange of experiences acquired during the process, and the supply of information and knowledge through meetings, seminars and other training events, addressed to the implementation of a secure, integrated, interoperable and cost-efficient regional ATM system, within a global frame of operational safety and inter functionality that will satisfy the needs of the international civil aviation.

1.6. During the Sixth Meeting of the Administration Coordination Group (ACG/6) (Lima, Peru 2 and 3 March 2006), the Draft Document of Project RLA/06/901, Assistance in the implementation of an ATM regional system, according to the ATM operational concept and the corresponding technological support for communications, navigation, and surveillance (CNS), was presented. The Meeting was informed that in one meeting of South American Civil Aviation Directors the project had been approved for the SAM Region. Since other similar project on CNS/ATM implementation had been approved by GREPECAS for both CAR and CAM Regions, it was suggested that this same action could be taken.

1.7. The general objective of this project is to provide assistance to the civil aviation authorities of participating States and organisations in the development of global air navigation plan initiatives that will contribute to the implementation of a regional air traffic management system, taking into account the global ATM operational concept and the corresponding CNS technology support, including the necessary AGA, AIS, and MET elements, the exchange of experiences concerning the processes, and the training of personnel in the topics involved.

1.8. Three are the immediate objectives defined for the implementation strategy:

1.8.1. Immediate objective No. 1: Development and implementation of global air navigation plan initiatives that will lead to the transition from an air traffic management system based on ground systems to another one based on aircraft performance.

1.8.2. Immediate objective No. 2: Implementation of AIS quality assurance and safety management systems in CAR/SAM States, in keeping with international standards and recommended practices.

1.8.3. Immediate objective No. 3: Develop a strategy for the operational implementation and integration of automated air traffic management systems in the CAR and SAM Regions, with a safe,

gradual, evolutionary, and interoperable vision that facilitates the exchange of information and collaborative decision-making with respect to all the components of the ATM system.

1.9. The AGC considered more time was necessary to examine the document before submitting it to the CAR Region. ACG also requested more information regarding costs.

2. **Progress for start-up of project RLA/06/901**

2.1. The final version of project RLA/06/901 was distributed among States of the SAM Region on 17 November 2006. The project document was also sent to NACC Regional Office for distribution on the CAR Region. To start the project activities, eight (8) States contributing with an annual quota of USD 31,250 were required.

2.2. As of the end of March 2007, confirmation of the following (9) States of the SAM Region has been received: Argentina, Bolivia, Brazil, Chile, Panama, Peru, Paraguay, Uruguay and Venezuela. Therefore, annual quotas will be reduced to approximately USD 27,800. The document has already been sent to each of the Administration for the corresponding signature.

2.3. The first coordination meeting has been planned to establish the programme of activities for year 2007 and to initiate the activities of the project.