

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
South American Regional Office**

**REGIONAL PROJECT RLA/03/901
REDDIG System Management and Satellite Segment Administration**

TWELFTH REDDIG COORDINATION COMMITTEE MEETING (RCC/12)

(Lima, Peru, 9-10 March 2009)

Agenda Item 5: Annual project report

ANNUAL PROJECT REPORT

(Paper presented by the Secretariat)

SUMMARY

This working paper presents the monitoring annual report of Project RLA/03/901 since the last meeting of the Coordination Committee carried out in May 2008, to date. Likewise, forms showing the project activities are being presented for the evaluation of the States member of the project.

References:

- Project Document RLA/03/901; and
- UNDP Programme Manual.

1. Introduction

1.1 The annual report is a rating of the Project, by the States and the Project Administration, during the last year of activities. It has the following objectives:

- a) Provide a written qualification and rating of the project progress towards the achievement of planned results;
- b) Present the opinion of the direct beneficiaries about the topics that influence in the project execution and their proposals to solve these matters;
- c) Be used as input for any evaluation of the project;
- d) Be used as a source of contributions to prepare the final report.

2. **Content and structure**

2.1 The structure of the annual report consists of three parts. In the first part, a numerical rating of the pertinence and performance of the project is required, as well as a general rating of the project.

2.2 In the second part, a written qualification of the project is required, mainly of principal successes, initial successful tests, questions and problems, recommendations and lessons learned.

2.3 The third part consists of a summary chart that consists of two sections: in one, the information on resources and expenditures is presented and, in the other, the progress towards expected results is pointed out. Annexes can be included, as and when necessary, to provide concrete information in support of indicated ratings and qualifications.

2.4 In the first part, the participating States should give a numeric rating of the project during the meeting, considering name, date and signature. **Appendix A** of this working paper presents the RLA/03/901 annual project report.

3. **Suggested actions**

3.1 The meeting is invited to:

- a) Take due note of the Annual Project Report being presented in **Appendix A** to this working paper;
- b) Rate part I of the chart being presented; and
- c) Analyze part II and III of the Annual Report.

APPENDIX A

PROJECT RLA/03/901 ANNUAL REPORT

PROJECT BASIC INFORMATION

Project number and title: RLA/03/901 - REDDIG Management System and Satellite Segment Administration

Institution in charge: ICAO

Project beginning date:
Originally planned: July 2003
Effective: September 2003

Project termination date:
Originally planned: July 2008
Effective: N/A

Total budget (dollars):
Initial amount: 1,958,200.00
Last approved revision: 1,958,200.00

Period covered by the report: May 2008 to February 2009

PART I: NUMERICAL RATING

Please rate the pertinence and performance of the Project using the following scale:

- | | |
|---|--------------------|
| 1 – Extremely satisfactory | 4 – Unsatisfactory |
| 2 – Satisfactory | X – Not applicable |
| 3 – Unsatisfactory, with some positive elements | |

Please give your answers in the corresponding column.

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN
A. PERTINENCIA															
1. How do you rate the level of pertinence of the project in relation to development priorities of the region?															
2. In what measure the project is oriented towards the appropriate beneficiary groups, on the basis of the following considerations? a) Gender b) Socio-economical factors c) Geographical location															
3. Given the project objectives, support is given to the Administrations?															
B. PERFORMANCE															
1. Using the following indicators, rate the contribution of the products to the achievement of the immediate project objectives <u>a/</u> :															

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN	
7. On the basis of your work plan, how would you rate the opportunity degree of the project regarding::																
a) Achievement of initial products and results?																
b) Supplies delivery?																
GLOBAL RATING OF THE PROJECT																

Explain the fundamentals of your ratings, which do not have to limit exclusively to the pertinence and performance criteria rated before and not necessarily coincide with the previous rating. In relation to the last year of the project, in the global rating an estimation of the possible success of the project should be included, as well as its pertinence or performance.

During the last year, REDDIG management has continued to operate efficiently, providing the State members with a reliable communications network, covering their aeronautical services needs and timely supplying the necessary logistical support for the provision of spare parts and the repair of equipment of the network nodes. In order to comply with the REDDIG NCC and Management Centre operations alternation, REDDIG operated from NCC Ezeiza, and on-the-job training was provided to NCC personnel at Ezeiza. Two basic courses were given on the REDDIG station, one for English-speaking REDDIG member States/Territories, dictated in Georgetown, Guyana, and the other, for Spanish-speaking REDDIG member States, in Maiquetia, Venezuela. A 64Kbit/sec circuit between Ezeiza and Asuncion was programmed, to carry out AMS trials between the respective MTA, with successful results. Also, a circuit between the Curitiba REDDIG node and the Ezeiza node, passing through the Manaos node, was programmed, for the carrying out of IP voice trials through a double hoop satellite circuit.

PART II: DESCRIPTIVE EVALUATION

1. Which are the principal achievements of the project in relation to expected results, during the year covered by the report? As possible, please include possible effects, sustainability and contribution to capacity building.

1.1. The REDDIG Administration continued to maintain in operation the network with the same reliability and without interruptions up to date.

1.2 Introduction of new circuits without problems (Asuncion-Ezeiza circuit for AMHS, Curitiba, Manaus, Ezeiza circuits for IP voice trials).

1.3 Two basic courses on the REDDIG Station were carried out, one in Georgetown, Guyana, and the other, in Caracas, Venezuela.

2. Which are the main subjects and problems influencing the achievement of the results of the project?

2.1. Some States have not made the deposit of their cost-sharing contributions on time.

2.2. Some States do not process with the necessary urgency the paper work necessary for the export and import of the equipment and cards to be repaired by the manufacturer, or ship those required for REDDIG's warehouse. This generates a high operational risk to REDDIG.

3. How can these situations or problems be solved? Please explain in detail action or actions recommended. Specify, who should be in charge of these actions. Also, indicate a provisional schedule and necessary resources.

3.1. Apply the procedure for cases of delayed deposits of cost-sharing contributions , approved during the Eighth REDDIG Coordination Meeting (Conclusion 8/11).

3.2. Establish direct communications with aeronautical authorities and with logistic focal points regarding the need of expediting the repair and replacement of equipments and defective spare parts.

4. Which new events (if they are to take place) should probably affect the achievement of the project results? What do you recommend to face these events?

4.1 Time periods for shipment and reception of parts and equipment to be repaired are too extensive. It is needed to establish more expedite procedures in each REDDIG State member or purchase parts in each node.

4.2 VIASAT no longer promotes the Linkway 2100 modem, and Memotec has informed that as of January 2009 the CX950e FRAD equipment will no longer be offered for sale.

4.3 Therefore, REDDIG Administration recommends to increase the REDDIG spare parts lot with the purchasing of CX950 series FRAD equipment and Linkway 2100 modem, with the aim of guaranteeing current REDDIG operations availability for the next three years.

5. Which are the opinions of the beneficiary groups regarding the project? Please indicate any significant difference based in matter of subjects, with respect to these opinions.

5.1 REDDIG is seen as the solution expected for the provision of voice and data aeronautical fixed services that answers to the problems in the past with the use of leased circuits to communications services providers, keeping a high service quality and availability, and a facility in the implementation of new services.

6. Up to date, what learning (positive and negative) can be taken of this project experience?

6.1 The States members joined in a regional cooperation model may obtain benefits (i.e., savings in telecommunication services costs).

6.2 Easy implementation of new circuits, making use of the same bandwidth appointed.

6.3 Spare parts sharing through a centralized warehouse operated by the REDDIG administration.

7. If the project has been object of external auditing, which is the application status of recommendations made by the evaluators?

7.1 The Project has not been object of an assessment under an external auditing.

8. Do you propose any substantive revision to the project document? In case of a positive answer, which are those revisions? Justify.

8.1 An increase in bandwidth in a short-term period, should be programmed. The implementation of new services requiring a considerable bandwidth is foreseen, as consequence of the AMHS systems' implementation in many States of the Region.

9. Provide any other information that could support or clarify your project assessment. You can attach the annexes that you consider necessary.

By ICAO: Name: Charge: Signature:	Date:
By Argentina: Name: Charge: Signature:	Date:
By Bolivia: Name: Charge: Signature:	Date:
By Brazil: Name: Charge: Signature:	Date:
By Chile: Name: Charge: Signature:	Date:
By Colombia: Name: Charge: Signature:	Date:
By Ecuador: Name: Charge: Signature:	Date:
By France: Name: Charge: Signature:	Date:
By Guyana: Name: Charge: Signature:	Date:
By Paraguay: Name: Charge: Signature:	Date:
By Perú: Name: Charge: Signature:	Date:

By Suriname: Name: Charge: Signature:	Date:
By Trinidad & Tobago: Name: Charge: Signature:	
By Uruguay: Name: Charge: Signature:	Date:
By Venezuela: Name: Charge: Signature:	Date:

PART III: Synoptical chart of the Project

Title and number of the Project:	RLA/03/901 REDDIG Management System and Satellite Segment Administration	Management dispositions:	
Institution in charge:	ICAO	Period covered:	May 2008 to February 2009
FINANCIAL SUMMARY			
Source of funds (thousand dollars)	Total budget year 2007 (thousand dollars)	Total expenditure year 2007 (thousand dollars)	Execution rate %
Participation in the expenditures of the project:			
Argentina	310,566		
Bolivia	178,738		
Brasil	529,334		
Chile	236,723		
Colombia	336,363		
Ecuador	170,578		
Francia	164,158		
Guyana	137,928		
Paraguay	172,423		
Perú	265,485		
Surinam	88,868		
Uruguay	261,658		
Venezuela	243,487		
Intereses	49,119		
Trinidad & Tobago	98,671		
	995	581	58.4 %

SUMMARY OF THE RESULTS		
Objetive of Programe Support or Immediate Objectives	INDICATORS	ACHIEVEMENTS
<p>Immediate Objective # 1 To support the States of the SAM Region in the creation, as earliest possible, of a multinational mechanism for the definite administration of the REDDIG, in harmony with studies and to the identification and validation of multinational services/installations by GREPECAS</p>	<p>The States of the SAM region will arrange a multinational mechanism for the REDDIG administration</p>	<p>This activity is currently being carried out by the Institutional Aspects Task Force. Progress has been made in the studies for the implementation of an OMR (multinational mechanism) that will include the REDDIG Administration within its functions. Meanwhile, REDDIG administration will continue under ICAO administration until 2010.</p>
<p>Immediate Objective # 2 REDDIG Management</p>	<p>Adequate operation of the REDDIG</p>	<p>The REDDIG Administration maintained the operation of the network with the same reliability and without interruptions up to date.</p>
<p>Immediate Objective # 3 Development of CNS/ATN applications in the REDDIG, in coordination with the RLA/98/003 project activities on Transition to the CNS/ATM Systems in the CAR/SAM Regions.</p>	<p>Implementation of at least one type of CNS/ATM application in the REDDIG platform</p>	<p>A document with AMHS systems technical specifications has been elaborated. Implementation of an IP AMHS circuit between Asuncion and Ezeiza.</p>

OBJECTIVE 1		
Elaborar una propuesta para la creación de un mecanismo multinacional para la administración definitiva de la REDDIG, considerando los estudios que al respecto serán llevados a cabo por GREPECAS		
Nota Esta actividad ya no se realizara en el Proyecto REDDIG sino se efectuara en el Grupo de Tarea sobre Aspectos Institucionales del GRPECAS.		
Annual product goals	Products achievements	Products goals proposed for next year
1.1 Analysis of the multinational possible mechanisms to provide air navigation services in order to define an arrangement for the REDDIG Administration.	Initial study, information collection and analysis on examples of multinational arrangements.	The GREPECAS Institutional Aspects Task Force is considering the REDDIG Administration within the OMR implementation study.
1.2 Proposal for the establishment of a multinational mechanism for the REDDIG Administration, elaborated.		Awaiting the initiation of OMR operations.
1.3 Proposal on the definite multinational mechanism for the REDDIG Administration, approved.		
1.4 Arrangements for the activation of the multinational mechanism for the REDDIG administration, prepared.		All activities concerning multinational mechanisms are being analyzed by GREPECAS Institutional Aspects Task Force.

OBJECTIVE 2		
REDDIG Administration		
Annual product goals	Product achievements	Products goals proposed for next year
2.1 Operation of the REDDIG administered by the project for a period of two years	Continue with same efficiency REDDIG administration has been working with. Due that solution consisting in managing REDDIG under OMR is at present being analyzed by GREPECAS, as requested by RCC/9, REDDIG management was extended by the project until December 2010, during RCC/10.	
2.2 REDDIG budget approved		
2.3 Satellite segment rented		Plan for the provision of bandwidth increase

OBJECTIVE 3 En correspondencia con los requisitos del FASID CAR/SAM y en coordinación con el proyecto RLA/98/003, planificar el desarrollo regional de aplicaciones CNS/ATM e implantar dichas aplicaciones.		
Annual product goals	Product achievements	Products goals proposed for next year
3.1 CNS/ATAM applications identified		
3.2 Plan for the implementation of the CNS/ATM applications approved		
3.3 CNS/ATM applications for the fix service implemented in the REDDIG platform	An AMHS circuit between Asuncion and Ezeiza, has been implemented.	The implementation of other AMHS circuits with the implementation of AMHS systems in Chile, Peru and Brazil, have been projected.

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- END -