



REDDIG RCC/14

INTERNATIONAL CIVIL AVIATION ORGANIZATION

**FOURTEENTH MEETING OF REDDIG
COORDINATION
COMMITTEE**

(RCC/14)

FINAL REPORT

(Lima, Peru, 16-18 March 2011)

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HISTORY OF THE MEETING

ii-1. PLACE AND DURATION OF THE MEETING

The Fourteenth Meeting of the Coordination Committee of the South American Digital Network REDDIG, was carried out in the ICAO South American Regional Office, in Lima, Peru, from 16 to 18 March 2011.

ii-2. OPENING

Mr. Franklin Hoyer, Regional Director of the ICAO South American Regional Office, welcomed the participants, pointing out the importance of the topics to be dealt with and wishing success in the deliberations. Thereafter, he inaugurated the meeting.

ii-3. WORKING LANGUAGES

The meeting working language for the discussions and documentation was Spanish and English.

ii-4. PARTICIPANTS AND ORGANIZATION

The meeting counted with the assistance of 9 member States (Argentina, Bolivia, Brazil, Chile, Colombia, Paraguay, Peru, Uruguay and Venezuela) and one international organization (COCESNA), making a total of 23 participants, including ICAO staff. The list of participants is being presented in pages iii-1 through iii-4.

Mr. Onofrio Smarrelli, Communications, Navigation and Surveillance (CNS) Regional Officer, acted as Secretary, assisted by Mr. Luis Alejos, REDDIG Administrator and Mr. Jorge Castro, Technical Cooperation Consultant.

ii-5. LIST OF CONCLUSIONS

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Agenda Item 1: Review of the report of the Thirteenth Meeting of the REDDIG Coordination Committee

1.1 Under this Agenda Item, the Meeting took note of the results of the Thirteenth Meeting of the REDDIG Coordination Committee (RCC/13), carried out in Lima, Peru, from 9 to 10 March 2010 with the attendance of six member States (Argentina, Brazil, Chile, Paraguay, Peru and Uruguay), totalling 17 participants, including ICAO staff.

1.2 REDDIG RCC/13 meeting analyzed the RCC/12 meeting report, the activities carried out by the project, its future work programme, financial situation, annual report, and the status of implementation of valid conclusions.

1.3 The **Appendix** to this Agenda Item presents a list of valid conclusions adopted by the RCC, and their status of implementation to date.

1.4 Under this Item, the delegate of Bolivia informed that his administration had purchased an AMHS from Thales, France, and that the equipment composing the AMHS was already in Bolivia, estimating its implementation by the end of 2011.

1.5 In this regard, the Meeting congratulated the initiative taken by the Administración de Aeropuertos y Servicios a la Navegación Aérea (AASANA) of Bolivia in purchasing the AMHS and of its forthcoming implementation, and urged completing its installation taking into account the guidance documentation drafted in the Region to that end.

1.6 The Meeting took note that with the implementation of AMHS in Bolivia, practically all SAM States counted with this system (Argentina, Brazil, Chile, Ecuador (Guayaquil), Guyana, Panamá, Paraguay, Peru, Suriname and Venezuela).

1.7 The Meeting was informed that those States that had recently purchased an AMHS should make necessary arrangements with each of the States with which they have AMHS interconnection requirements (FASID Table CNS 1Bb), in order to establish the respective Memorandum of Understanding (MoU).

1.8 In this respect, the Meeting recalled SAM/IG/6-9 Conclusion - *Actions required for AMHS interconnection*, formulated by the Sixth Workshop/Meeting of the SAM Implementation Group (SAM/IG/6) (Lima, Peru, 18 to 22 October 2010) with the aim that SAM States, in view of the AMHS interconnection delays, proceed to finish these actions, carry out necessary arrangements to train personnel in interconnection tasks, and complete the drafting and signature of MoUs with the States that have not yet done so.

1.9 In addition, it was recalled that all guidance documentation for the interconnection of AMHS in the SAM Region was published in the following ICAO South American Regional Office Web page link:

http://www.lima.icao.int/eDocuments/eDoc_Contents.asp?wLanguage=S&wArea=CNS#.

APPENDIX

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION

No.	Title	Content	Status	Remarks
RCC 8/8	REDDIG Administration	That, until such time that the institutional aspects related to the management of multinational systems for the provision of air navigation services are more clearly defined, the States agree that, for the next two years, starting 15 October 2005, the REDDIG will continue to be managed through the ICAO technical cooperation mechanism, as an extension of Regional Project RLA/03/901.	Valid	In view that the South American Air Navigation and Safety Organisation (multinational system) has no fixed date to become effective, the RCC/14 meeting deemed it convenient that ICAO extend the management and administration of REDDIG through RLA/03/901 project until 31 December 2014
RCC 11/5	Deposit of cost-sharing contributions to Project RLA/03/901	That the REDDIG member States, as a matter of urgency, make the corresponding arrangements to deposit their cost-sharing dues to Project RLA/03/901 by 1 July 2008	Completed	Suriname deposited its pending cost sharing contributions to project RLA/03/901, up to 2010
RCC 12/1	Actions to keep the REDDIG equipment operational in the coming years	<p>Since the existing REDDIG equipment meets the requirements of existing services and of those to be installed in the near future, and taking into account that MEMOTEC FRAD and Linkway MODEM will be discontinued, an appeal is made:</p> <ul style="list-style-type: none"> a) to keep the existing equipment that make up the REDDIG for an initial minimum period of three years; b) for the REDDIG project to purchase the spare parts for the MEMOTEC FRAD equipment shown in Appendix F to this agenda item by 30 July 2009; c) to purchase the Linkway MODEM spare parts listed in Appendix G to this agenda item by 2010; and d) for the REDDIG Administration to draft a plan to change completely the technology of the current REDDIG equipment, for implementation in a minimum period of three years starting in 2009, and that it be submitted to the RCC/13 meeting, taking into account the MEVA II/REDDIG interconnection. 	Completed	<ul style="list-style-type: none"> c) The acquisition of spare parts for the modem equipment has been made d) A study for the implementation of a new digital network has been drafted and analyzed by RCC/14 meeting.

No.	Title	Content	Status	Remarks
RCC 12/2	Analyse the additional bandwidth requirement for the REDDIG	That the <i>Ad-hoc</i> Group made up by Argentina, Brazil and the REDDIG Administration study the bandwidth requirement in view of the implementation of new services in the REDDIG, and submit the results by 15 May 2009 so that the REDDIG Administration may begin, if necessary, coordinating with INTELSAT for reserving the additional satellite segment for 2010.	Completed	Bandwidth requirement studies have been completed, and are indicated in the study for a new digital network
RCC 12/3	Adoption of the actions foreseen for cases of default in payment, for Suriname	That, taking into account that the 2007 cost-sharing contributions of Suriname to Project RLA/03/901 are still pending, in case such contributions are not received before 1 July 2009, the REDDIG Administration will apply the actions foreseen for cases of payment default.	Completed	Suriname paid its pending contributions to RLA/03/901 projects up to 2009; therefore, no application of payment default actions
RCC 12/4	Deposit of cost-sharing contributions to Project RLA/03/901	That the REDDIG member States, as a matter of urgency, make arrangements to deposit their cost-sharing contributions to Project RLA/03/901 before 1 July 2009.	Completed	All SAM States have made deposits of their cost sharing contributions to RLA/03/901, up to 2009
RCC 12/5	Revision of the budget for Project RLA/03/901	That Revision M of the budget for Project RLA/03/901, shown in Appendix A to this part of the report, be approved.	Completed	RLA/03/901, Revision M, was approved
RCC 13/1	Payment of cost-sharing contributions to Project RLA/03/901	That REDDIG Member States make arrangements as soon as possible for the deposit of their 2010 cost-sharing contributions to Project RLA/03/901 not later than July 1st, 2010	Valid	Some States have not yet made or completed the deposit (Argentina, Guyana, Paraguay and Uruguay) of their cost sharing contributions to RLA/03/901 project
RCC 13/2	Revision of RLA/03/901 project document budget	Thus, the budget established as RLA/03/901 Project Revision N is approved, as presented in Appendix A to this part of the report.	Completed	The Revision N to RLA/03/901 project, was approved

Agenda Item 2: Report of the activities carried out to date since the last REDDIG Coordination Committee meeting

2.1 Under this Agenda Item, the Meeting was informed on the activities carried out since the last meeting. It was informed that the REDDIG Administration is managing the normal operation of the network, providing the aeronautical telecommunications services through it with the highest quality and availability standards.

2.2 The Meeting took note of the main activities carried out in 2010, such as:

- a) Follow-up on activities for the implementation of the MEVA II/REDDIG interconnection;
- b) 2010 training programme;
- c) Alternating operation of NCCs and Management Centre;
- d) Implementation of new services;
- e) Study of the new digital network as a total renewal plan of the REDDIG platform; and
- f) Logistics and spare part management.

Follow-up on activities for the implementation of the MEVA II / REDDIG interconnection

2.3 The Meeting took note that the installation works for the interconnection of the Bogota and Caracas REDDIG node to the MEVA II network were carried out from 1 to 17 March 2010, as programmed in the agreement signed between ICAO and the MEVA II Service Provider (N° 22500187).

2.4 In addition, that a Viasat Linkway 2100 modem, two DVP2 E-1 cards for the FRAD MEMOTEC CX 950 equipment (1 for the MPS A and 1 for the MPS B), three two-port L-band splitters, and three L-band combiners, were installed in Bogota; and a Viasat Linkway 2100 modem, 4 DAV cards for the FRAD MEMOTEC CX 950 equipment (2 for the MUX A and 2 for the MUX B), three two-port L-band splitters, three two-port L-band combiners and two Datacom Standard 75 Watt C-band amplifiers, had been installed at the Caracas (Maiquetia) REDDIG node.

2.5 Once the MEVA II Service Provider and the REDDIG Administration, acting in coordination, had completed the installation of the equipment at the Bogota and Caracas REDDIG nodes, they proceeded to carry out the trials on voice and data circuits (AFTN) planned in the implementation for MEVA II / REDDIG interconnection.

2.6 In this regard, communications could be successfully established in both ways in the ATS speech circuits foreseen in the MEVA II / REDDIG interconnection, except for the circuit Josefa Camejo (via Caracas) and Aruba.

2.7 The Meeting noted that the only services foreseen in the MEVA II / REDDIG interconnection still non-operational were the AFTN circuits, pending the configuration in the FRAD equipment by the MEVA II network communications service provider (SES) and the implementation of local connections between the AFTN switch exits to the corresponding Memotec entry ports at many of the nodes involved in the interconnection.

2010 training programme

2.8 The Meeting was informed of the Technical-Operative Meeting on Communications Networks and Data Transmission held in Lima, Peru, from 11 to 15 October 2010, at the Civil Aviation Training Centre (CATC) of CORPAC S.A.

2.9 Said meeting was attended by 38 delegates from Argentina, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Suriname, Trinidad & Tobago, Uruguay and Venezuela, plus the Corporación Centroameiricana de Servicios de Navegación Aérea (COCESNA), granting 15 individual fellowships to States participating in the Project. Representatives from INEO Engineering & Systems (Francia) and SES Sistemas Electrónicos (Argentina) also intervened as expositors.

Alternating operation of NCCs and management centres

2.10 The Meeting was informed that the initial planning for the alternating operation of the NCC could not be carried out, mainly due because the SAEZ station did not count with monitoring and control (M&C) facilities, due to small failures in both of its SSPA amplifiers. Nevertheless, only the reference carrier was temporarily switched from the Manaus to the Ezeiza station during the solar conjunction periods.

Implementation of new services

2.11 The Meeting took note of the establishment and activation of the following circuits:

- a) PVC for radar data exchange between Argentina and Uruguay;
- b) ATSa circuit between Colonia, Uruguay and Buenos Aires/Aeroparque, Argentina;
- c) PVC for AMHS trials between the Manaus, Brazil and Buenos Aires/Ezeiza, Argentina; and
- d) PVC for AMHS between Buenos Aires/Ezeiza, Argentina and Curitiba, Brazil.

2.12 The Meeting was informed that AMHS operational traffic between Colombia and Peru started on 8 November 2010, the first operational implementation of this type of service in the CAR/SAM Regions.

Study of the new digital network as a total renewal plan of the REDDIG platform

2.13 With the aim of analyzing the study for the implementation of the new REDDIG II digital network, the Meeting analyzed WP/07, WP/10, IP/03, IP/04 and a presentation on networks technology.

2.14 The Meeting examined the study for the implementation of a new digital network for the SAM (REDDIG II) presented in WP/07. This study had been circulated to SAM States for the submission of comments before 31 January 2011, in follow-up to Conclusion SAM/IG/6-10 - *Review to the study for a new SAM digital network*.

2.15 The Meeting, once it had reviewed the project document with the comments provided by States, proceeded towards its approval. In this regard, it deemed convenient that the project document were circulated to communications service providers, network communications equipment manufacturers and network integration companies, with the aim that they analyze the study and propose the corresponding solution as regards configuration and cost..

2.16 The results of the analysis to be made to the document by the providers, manufacturers and integrators will be presented at the Seminar/Workshop on New Satellite and Ground Networks Technology to be held in Lima, Peru, from 18 to 20 July 2011.

2.17 In addition, the Meeting was informed of the implementation of the Argentinean ATN network and its applications. Note was taken that it was an IP network on a mixed ground and satellite network configuration. In this respect, the Meeting took note of the highlights of the network and of its easy enhancement in the addition of new services.

2.18 The Meeting took note that domestic mixed satellite and ground network configurations were also installed in Colombia and Venezuela.

2.19 Also, the Meeting noted on the activities being carried out in Peru for the implementation of a satellite based digital network. More information in this regard is found in IP/04.

2.20 In addition, the Meeting was informed on the results to the research made by Brazil with respect to the satellite technology available. Information in this respect is in IP/03 (*available in Spanish only*).

Logistics and spare parts management

2.21 The Meeting was informed that in 2010, twenty-six logistics operations had been conducted.

2.22 A summary of equipment and spare parts failures during 2010 was presented:

FRAD Manufacturer: Memotec

(1)	Universal I/O Card	: (1) SAEZ
(1)	Motherboard CX950	: (1) SYGC
(7)	FXS SLIM Card	: (6) SYGC, (1) SVMI
(6)	Internal Fan	: (2) SUMU, (2) SAEZ, (1) SCEL, (1) SGAS

MODEM Manufacturer: ViaSat

(8)	Quad Output P.S.	: (2) SBCT, (1) SYGC, (1) SUMU, (1) SAEZ, (1) SBRF (1) SBMN, (1) SMPM
(3)	Terminal LW2100	: (1) SCEL, (1) SGAS, (1) COCESNA
(1)	Internal fan	: (1) SBCT

SSPA Manufacturer: Paradise Datacom

(1)	M&C	: (1) SMPM
(1)	Amplifier	: (1) SAEZ

Others - REDDIG

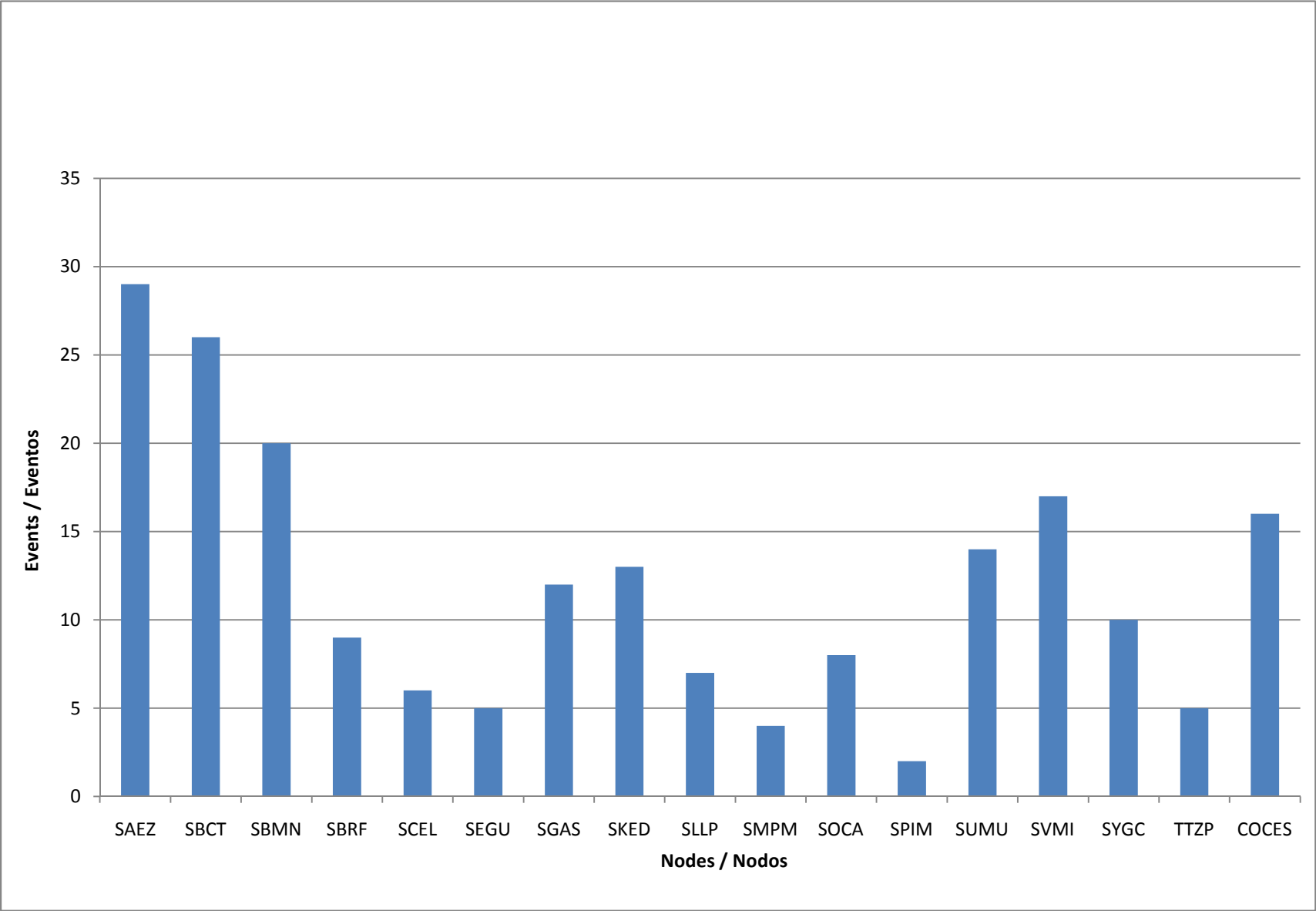
(1)	Converter RS485/232	: (1) SCEL
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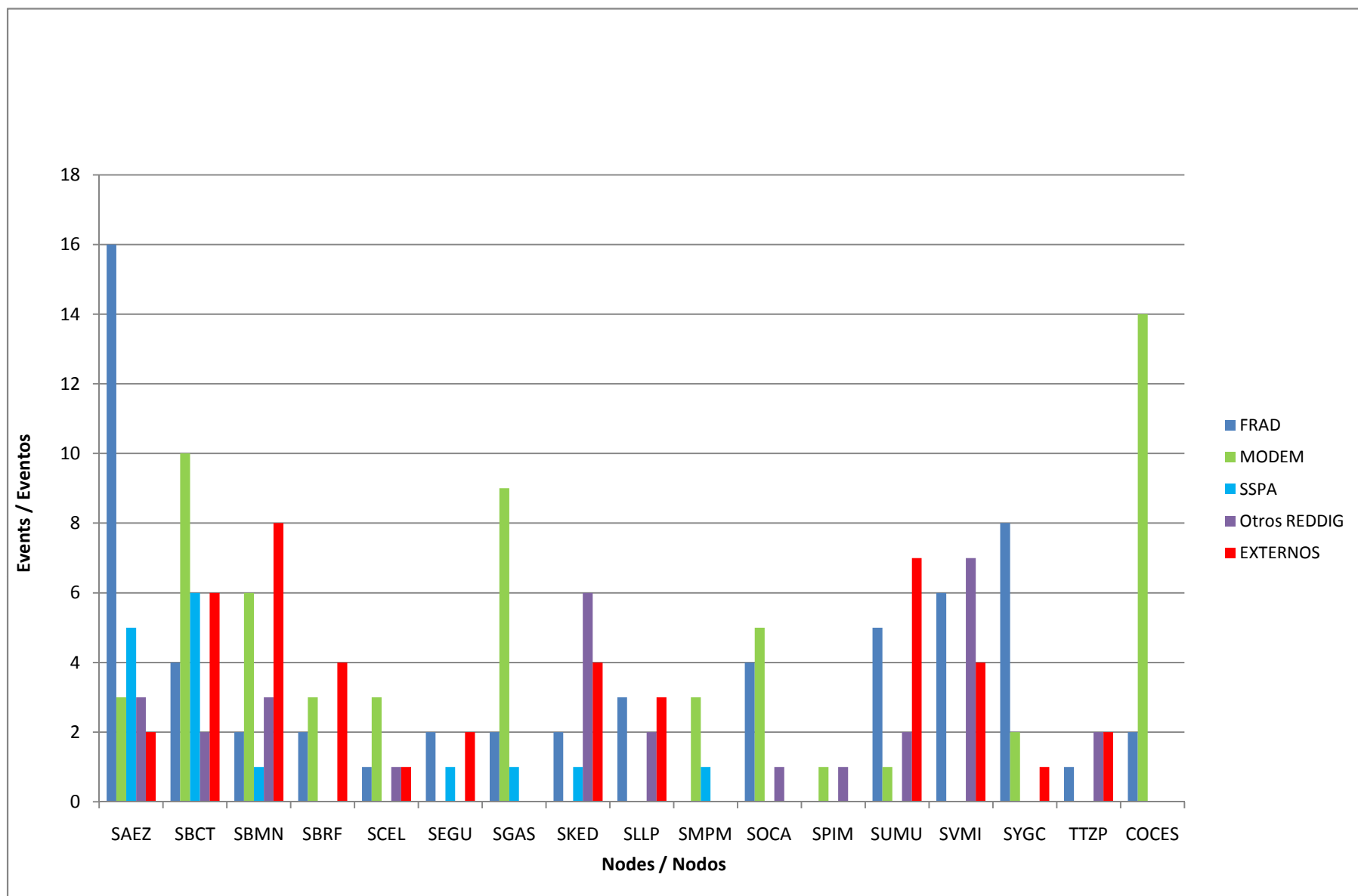
2.23 The Meeting was informed of the purchase of two (2) refurbished Linkway 2100 modems for a FOB USA value of USD3,500, to form part of the REDDIG spare parts lot.

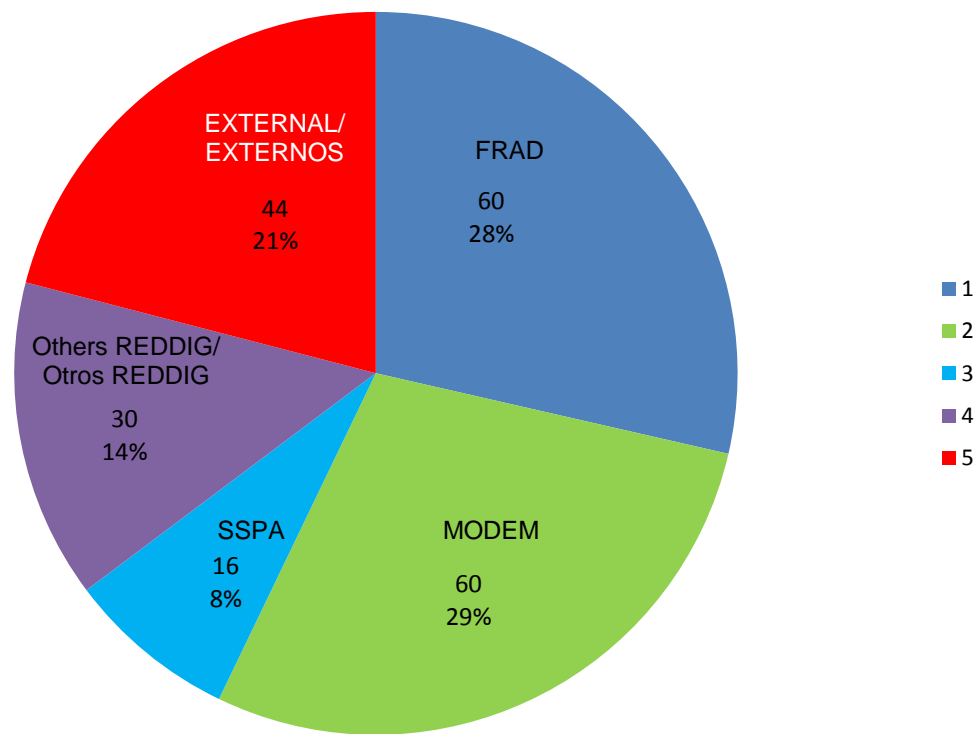
2.24 In addition, information was received that in view that in the SVMI Venezuela station two 40W SSPAA were replaced by two new 75W SSPA in order to meet the technical requirements for MEVA II / REDDIG interconnection, the two 40W SSPA will be included in the REDDIG spare parts lot for the ICAO SAM Regional Office's storage.

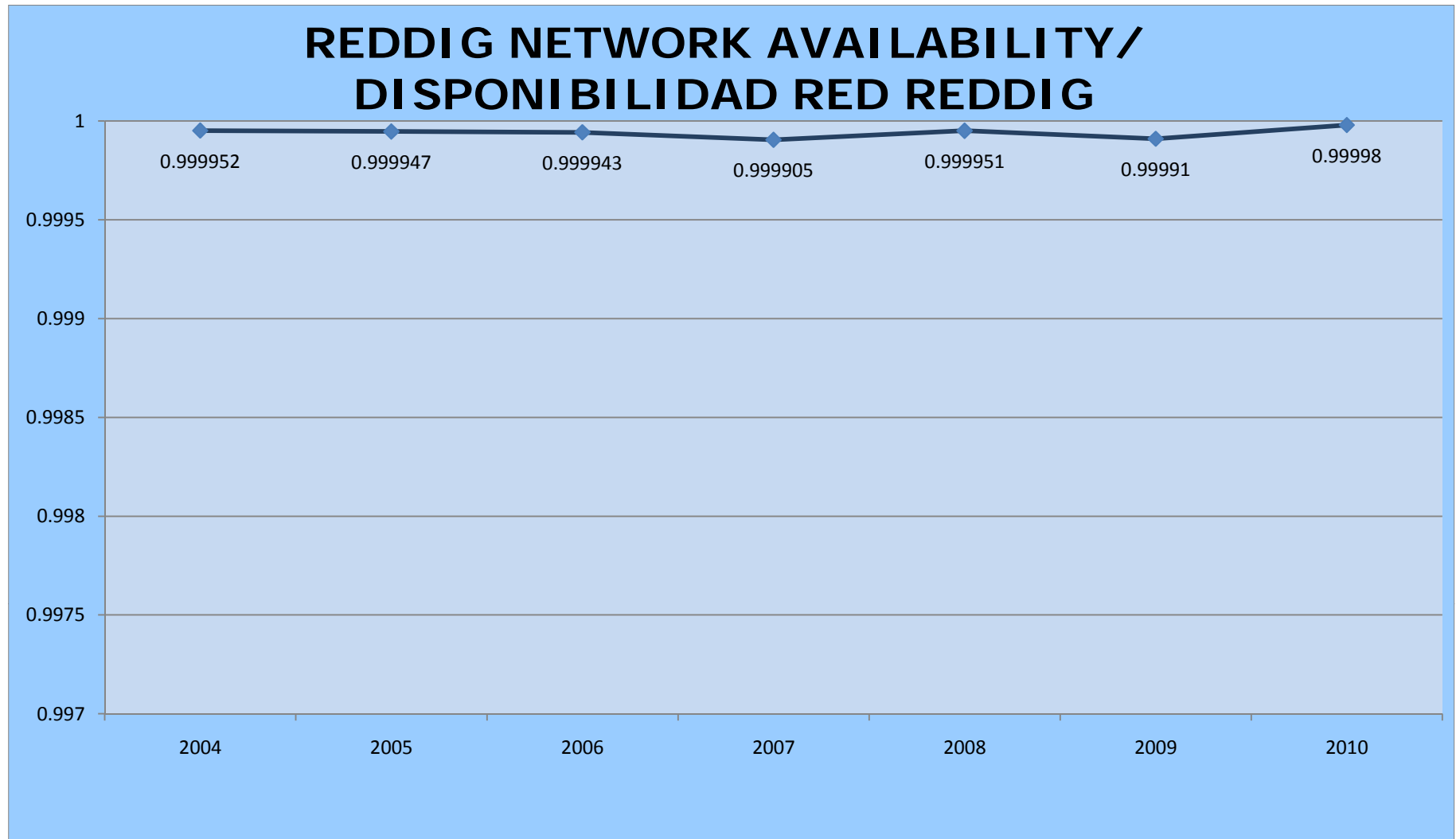
2.25 The Meeting noted the 2010 statistics on the numbers of the network nodes main repairs, as well as their distribution in terms of type of equipment requiring the service, as well as on their distribution as regards the type of attention. **Appendix A** to this working paper shows the statistics for 2010.

2.26 In addition, the Meeting took note of the network availability chart up to the end of 2010 shown in **Appendix B** to this part of the Report.









Agenda Item 3: Work plan for 2011

3.1 Under this Agenda Item, a proposal of activities presented by the REDDIG Administration to be carried out during 2011 was analyzed upon, highlighting the following:

- a) Implementation of AFTN circuits in the MEVA II / REDDIG interconnection;
- b) 2011 training programme;
- c) NCC operation alternation and REDDIG management centre;
- d) implementation of new services in REDDIG; and
- e) study on the implementation of the new digital network (REDDIG II).

Implementation of AFTN circuits in the MEVA II / REDDIG interconnection

3.2 With the aim of analyzing the activities necessary to complete the implementation of the REDDIG AFTN circuits with United States through MEVA II / REDDIG, a meeting took place on 17 March 2011 among the REDDIG Administrator and delegates from Brazil, Colombia, United States, Peru and the MEVA II communications service provider (SES), whose participation was held via Web tele-conference. The results of the Meeting are shown in **Appendix A** to this part of the Report, highlighting the actions to be completed for the implementation of AFTN circuits in the MEVA II / REDDIG interconnection.

2011 training programme

3.3 The Meeting approved the holding of a seminar/workshop on new satellite and ground networks technology to take place in Lima, Peru, from 18 to 20 July 2011. The revised agenda of this seminar/workshop is shown in **Appendix B** to this part of the Report.

NCC operation alternation and REDDIG management centre

3.4 The Meeting, taking into consideration that the NCC operation and the REDDIG management centre alternation is a continuous procedure carried out to maintain the network's respective redundancy, has considered that this year the NCC operation and management centre be transferred from Brazil to Argentina for a three-week period, at a date to be determined within the second semester of 2011.

Implementation of new services in REDDIG

3.5 It was deemed convenient that the implementation of the AFTN circuits in the MEVA II / REDDIG interconnection be completed by 2011 and that an evaluation be carried out to the performance of the ATS speech circuits implemented through the interconnection, in view that ICAO was making payment of the expenses for the use of these circuits to the MEVA II service provider.

3.6 In this regard, the Meeting considered that, taking into account the performance of these ATS speech circuits, States involved could proceed, if considered appropriate, in deactivating the old circuits.

3.7 The Meeting analyzed the proposal made by Brazil to implement in REDDIG the ATS speech circuits specified in CAR/SAM FASID Table CNS 1C, between the ATS units located in the frontier of Brazil and Argentina, Bolivia, Colombia and Paraguay.

3.8 The Meeting took note that the afore indicated ATS speech communications are established through VHF – FM radio links, and that same had availability problems due to equipment obsolescence and lack of spare parts for their maintenance.

3.9 It was considered that, before implementing these circuits in REDDIG, States involved should draft action plans for the implementation of the necessary domestic communications links between the border ATS unit and the respective REDDIG node and, thereafter, analyze their possible implementation.

3.10 The ATS speech circuits to be initially implemented in REDDIG would be the following:

- a) Tabatinga (Brazil) – Leticia (Colombia);
- b) Guajaramirim (Brazil) – Guayaramirín (Bolivia);
- c) Corumbá (Brazil) – Puerto Suárez (Bolivia);
- d) Foz do Iguaçu (Brazil) – Cataratas (Argentina);
- e) Foz do Iguaçu (Brazil) – Guaraní (Paraguay);
- f) Uruguaiana (Brazil) – Libres (Argentina).

3.11 In this regard, the Meeting formulated the following conclusion:

Conclusion RCC 14/1 - Implementation of new ATS speech circuits in REDDIG

That, with the aim of increasing the speech communications availability currently carried out through VHF – FM links at the ATS units located in the Brazilian borders:

- a) The aeronautical administrations of Argentina, Bolivia, Brazil, Colombia and Paraguay prepare an action plan for the implementation of local links between the border ATS unit and the corresponding REDDIG node, to transport the ATS speech circuits indicated under this Agenda Item, paragraph 3.1, and that they be sent to the ICAO Regional Office by 30 June 2011; and
- b) The REDDIG administration proceeds with the configuration of REDDIG for the inclusion of these circuits.

3.12 The Meeting also considered that the REDDIG member States analyze the availability of other ATS communications in the SAM Region, specified in CAR/SAM FASID Table CNS 1C and using VHF - FM, and study the possibility of including them in REDDIG.

3.13 In addition, the Meeting noted that during 2011 the implementation of new circuits for the Exchange of radar data and flight plans would continue, as well as the interconnection of AMHS in REDDIG. **Appendices C and D** present, respectively, the action plans for radar data and flight plan interconnection, as well as AMHS.

3.14 The delegate of Venezuela informed that the new AMHS was operational since the end of 2010 and that necessary coordination for the implementation of trials through REDDIG for network transportation and connectivity with Brazil, Colombia and Peru, would start. The exchange of AMHS would be made once the network transport and connectivity trials were completed. In this regard, the Meeting deemed it convenient that memoranda of understanding (MoU) for the interconnection of AMHS between Venezuela and Brazil, Colombia and Peru should be presented for review and approval at the next seventh workshop/meeting of the SAM Implementation Group (SAM/IG/7), to be held in Lima, Peru, from 23 to 27 May 2011.

Study on the implementation of the new digital network (REDDIG II)

3.15 The Meeting took note that by mid-2011 the works for the drafting of terms of reference for the implementation of the new digital network for the SAM Region (REDDIG II) would start, in follow-up to the activities taken under consideration in the action plan drafted to this end (see WP/07, Appendix C).

APPENDIX A

COORDINATION MEETING FOR THE IMPLEMENTATION OF AFTN CIRCUITS THROUGH MEVA II / REDDIG INTERCONNECTION AT BRAZIL, COLOMBIA, PERU AND VENEZUELA, WITH UNITED STATES

Site: ICAO South American Regional Office, Lima, Peru.
Date: 17 March 2011
Participants: Dulce Roses, FAA, United States
Athayde Frauche, Brazil
Natalia Torres, Colombia
Jorge García, Peru
Vicente Fiore, Venezuela
Luis Alejos, REDDIG-ICAO
vía tele-conference: Matthew Toney, SES World Skies
Albert O'Neill, FAA, United States
Nigel Simmons, FAA, United States

1. Once the tele-conference was established with all the participants, Matthew Toney delivered a presentation on the plans of SES World Skies to implement the indicated AFTN circuits.
2. SES has scheduled to carry out AFTN tests between Curaçao-Caracas and Bogotá-Panama during the week of 21 to 25 March 2011. The tests between Caracas-Atlanta were also scheduled for next week; nevertheless, since this circuit will receive the same treatment as the Brazil-Atlanta and Peru-Atlanta circuits, they were postponed.
3. It was established that the AFTN circuits between Curaçao-Caracas and Bogotá-Panamá will be asynchronous at both ends. The programming will be carried out by SES, who will send the REDDIG administration the corresponding archives for installation in the respective equipment.
4. The AFTN circuits between Brazil-United States, Peru-United States and Caracas-United States will be asynchronous on the Bogota and Caracas ends, and X.25 on the Atlanta end.
5. The PAD conversion from asynchronous-X.25 would be made in the Bogota Memotec equipment. Also, the PAD asynchronous-X.25 conversion will be made in the Caracas Memotec equipment. The programming will be carried out SES.
6. SES presented a plan to make local trials to verify the PAD conversion configuration in Atlanta, and thus avoid repeatedly interrupting the Bogota services, as the configuration would potentially have to be modified and installed many times.
7. In view that the FAA representatives commented upon and made various technical consultations on the feasibility or not of making local tests on the PAD conversion in Atlanta, the SES representative suggested carrying out a tele-conference with a Memotec engineering specialist on Friday 18 March at 09:00, at the Lima Regional Office.
8. Once the tele-conference ended, the representative of Venezuela requested the intervention of the FAA representative in order that an entry route be programmed at the San Juan control centre voice switch. It was also requested that the numbers of Maiquetia be included in the San Juan dialling plan.

9. In addition, the representative of Peru informed that FAA representative that the current Lima-Atlanta AFTN circuit (external to REDDIG) is recurrently experiencing loss of transmittal messages.

APPENDIX B**SEMINAR/WORKSHOP ON NEW SATELLITE AND GROUND NETWORKS TECHNOLOGY**
(Lima, Peru, 18 to 20 July 2011)**DRAFT AGENDA****Agenda Item1: REDDIG II digital network study** *(presented by SAM communications experts, REDDIG Administration and ICAO)*

- a) Study on services requirements in support of air navigation in the short, médium and long term
- b) Study on band width requirements for the implementation of new services in REDDIG II
- c) Study of the ground and mixed (satellite & ground) satellite communications networks models for REDDIG II

Agenda Item 2: New satellite communications networks trends *(presented by the industry and communications services providers)*

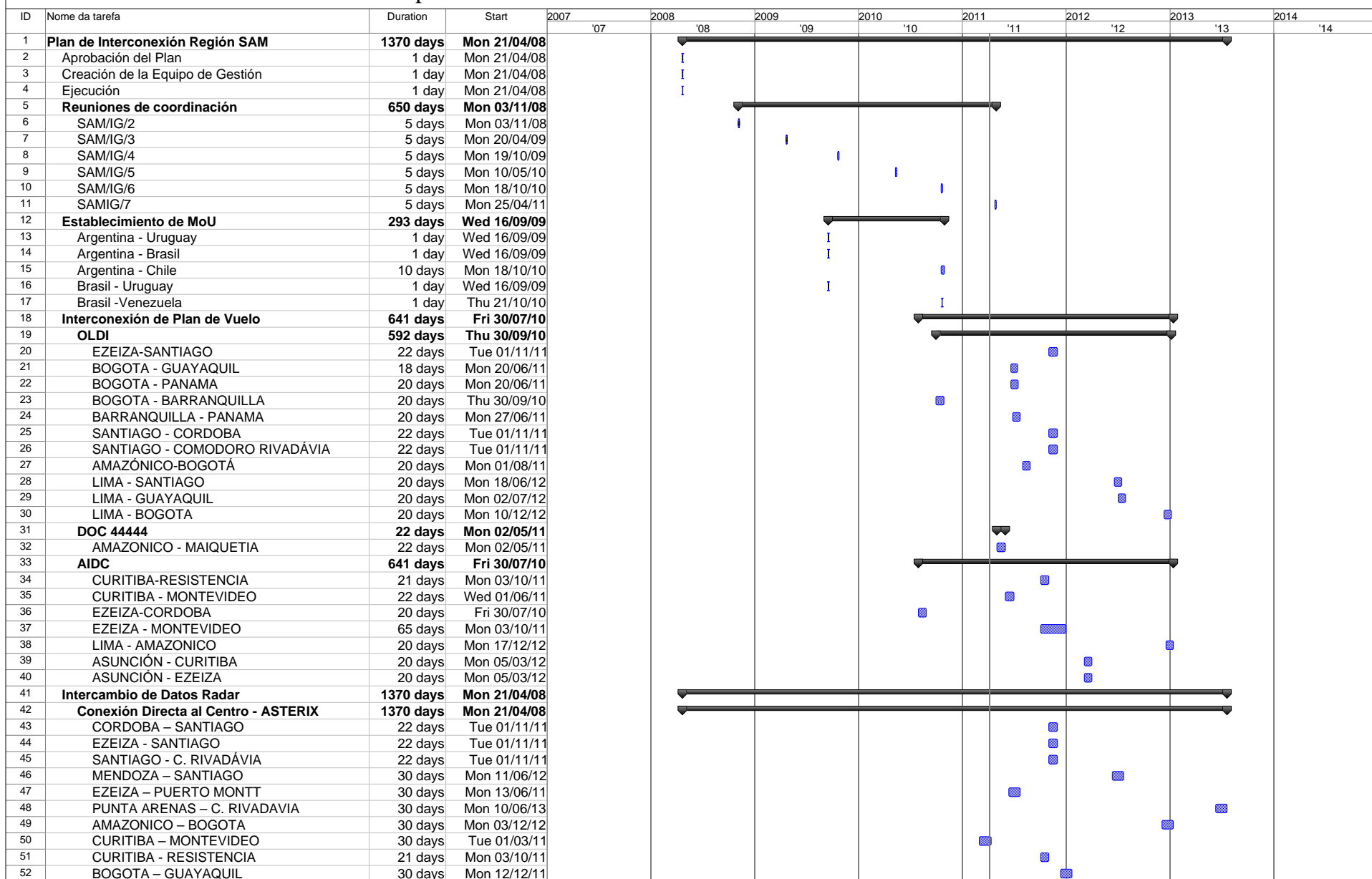
- a) New modulation and multiplexing techniques in satellite digital link protocols
- b) New multiple satellite Access techniques
- c) New coding techniques and error correction in digital links

Agenda Item 3: New ground digital communications networks trends *(presented by the industry and communications services providers)*

New modulation and multiplexing techniques in ground digital link protocols

Agenda Item 4: Solutions proposed by the industry to the REDDIG II satellite digital network model *(presented by the industry and communications services providers)*

Presentation of solution proposals by the industry and communications services providers to the REDDIG II digital network study



Projeto: PLAN ACCIÓN INTERCONEX
 Data: Fri 08/04/11

Tarefa
 Divisão
 Etapa
 Resumo

Resumo do projeto
 Tarefas externas
 Etapa Tarefa
 Inactive Task

Inactive Milestone
 Inactive Summary
 Manual Task
 Duration-only

Manual Summary Rollup
 Manual Summary
 Start-only
 Finish-only

Andamento
 Divisão



ID	Nome da tarefa	Duration	Start	2007	2008	2009	2010	2011	2012	2013	2014
				'07	'08	'09	'10	'11	'12	'13	'14
53	BOGOTA – PANAMA	30 days	Mon 05/12/11								
54	BOGOTA – BARRANQUILLA	30 days	Mon 21/04/08								
55	BOGOTA – LIMA	30 days	Mon 13/05/13								
56	BOGOTA – MAIQUETÍA	30 days	Tue 31/01/12								
57	BARRANQUILLA – PANAMA	30 days	Mon 13/06/11								
58	BARRANQUILLA – MAIQUETÍA	30 days	Wed 29/02/12								
59	LIMA – SANTIAGO	30 days	Mon 21/05/12								
60	LIMA – GUAYAQUIL	30 days	Mon 10/06/13								
61	LIMA – AMAZONICO	30 days	Mon 10/06/13								
62	ASUNCIÓN – CURITIBA	30 days	Mon 03/12/12								
63	ASUNCIÓN – EZEIZA	30 days	Mon 10/12/12								
64	MONTEVIDEO-EZEIZA	23 days	Tue 01/03/11								
65	ICD Propietário	23 days	Tue 01/03/11								
66	AMAZONICO - MAIQUETIA	23 days	Tue 01/03/11								
67	Inter-Centro ASTERIX 62,63 (TBD)	1 day	Mon 04/03/13								

APPENDIX D

ACTION PLAN FOR THE INTERCONNECTION OF AMHS SYSTEMS IN THE SAM REGION

ITEM	ACTIVITY	RESPONSIBLE	EXPECTED RESULT	STATUS	FINALIZATION DATE
1	2	3	4	5	6
1	Review of the ATN Regional Plan as regards AMHS implementation	Secretariat	Revised ATN ground applications plan (Table CNS 1Bb)	Completed	Jun 2009
2	Review and assignment of intra-regional routers IP addressing	Secretariat	Assignment of IP addressing	Completed	Jun 2009
3	Review of CAAAS addressing plan	SAM States	Revised CAAS addressing Plan	Completed	Jun 2009
4	Prepare interconnection protocol tests to determine bandwidth required for transmission of AMHS messages between MTAs through REDDIG	RLA/06/901 project CNS Expert	Protocol interconnection tests. A guide for the operational interconnection of AMHS systems was drafted	Completed	Dec 2009
5	Preparation of Guide for the Operational Interconnection of AMHS Systems in the SAM Region	RLA/06/901 project CNS Expert	Guide for the operational interconnection of AMHS systems in the SAM Region	Completed	Oct 2009
6	Drafting of a model MoU for the interconnection of AMHS	Argentina	Model MoU for the interconnection of AMHS	Completed	Oct 2009
7	MoU for the interconnection of AMHS currently implemented in the SAM Region: a) Argentina-Brazil b) Argentina-Chile c) Argentina-Peru d) Argentina-Paraguay e) Brazil-Colombia f) Brazil-Paraguay g) Brazil-Peru h) Chile-Peru i) Colombia-Peru j) Colombia-Panama	SAM States involved	MoU for interconnection of AMHS systems between SAM States having AMHS implemented.	Valid a), d), f) & i) Completed	b) Oct 2010 c) Oct 2010 g) Oct 2010 e) Jan 2011 h) Dec 2010 j) May 2011
8	Phase I Interconnection trials between MTAs of: a) Argentina-Brazil b) Argentina-Paraguay c) Brazil-Paraguay d) Colombia-Peru Types of tests to carry out: Network transportation; Network connectivity; Message exchange; Preparatory phase.	Argentina, Brazil, Paraguay and REDDIG Administration	Interconnection trials between Argentina, Brazil and Paraguay MTAs	Valid a) network transportation and connectivity trials carried out with the Manaus node. MoU was updated, since Brazilian entrance node will be Curitiba. Network connectivity, and transport and exchange of messages tests will be repeated b) network transportation and connectivity, and message exchanges trials carried out. c) MoU was updated, as entrance node to Brazil will be Curitiba, and the network connectivity, and transport and exchange of messages tests will be carried out.	a) Dec 2010 b) Dec 2010 c) Dec 2010 d) Nov 2010

ITEM	ACTIVITY	RESPONSIBLE	EXPECTED RESULT	STATUS	FINALIZATION DATE
1	2	3	4	5	6
9	<p>Phase II</p> <p>Interconnection trials between MTAs of:</p> <ul style="list-style-type: none"> a) Argentina-Chile b) Argentina-Peru c) Brazil-Colombia d) Brazil-Peru e) Chile-Peru f) Colombia-Peru g) Panama-Colombia <p>Types of tests:</p> <p>Network transportation; Network connectivity; Message exchange; Preparatory phase.</p>	Argentina, Brazil, Chile, Colombia, Panama y Perú	Interconnection trials between AMHS systems listed in column 2 of this table.	<p>Valid</p> <ul style="list-style-type: none"> a) Network transportation tests carried out b) Network transportation and connectivity tests carried out. Draft MoU was presented. c) Network transportation and connectivity tests carried out. Draft MoU was presented. d) Network transportation and connectivity tests carried out. Draft MoU was presented. e) No tests were carried out. f) Network transportation and connectivity tests carried out as per EUR AMHS Manual, Appendix E. g) No tests were carried out. 	<ul style="list-style-type: none"> a) May 2011 b) May 2011 c) Apr 2011 d) Apr 2011 e) Apr 2011 g) TBD
10	<p>Operational interconnection implementation at the following MTAs:</p> <ul style="list-style-type: none"> a) Argentina-Paraguay b) Argentina-Brazil c) Argentina-Chile d) Argentina-Peru e) Brazil-Colombia f) Brazil-Paraguay g) Brazil-Peru h) Chile-Peru i) Colombia-Peru j) Panama-Colombia 	Argentina, Brazil, Chile, Colombia, Panama, Paraguay and Peru	Operational implementation of AMHS systems.	<ul style="list-style-type: none"> a) In accordance with MoU b) In accordance with MoU d) In accordance with MoU f) In accordance with MoU g) In accordance with MoU 	<ul style="list-style-type: none"> a) Dec 2010 b) Dec 2010 c) Jun 2011 d) Jun 2011 e) Apr 2011 f) Dec 2010 g) Jun 2011 h) Apr 2011 i) Nov 2010 j) TBD

Agenda Item 4: Financial situation of project RLA/03/901 and budget approval for 2011

4.1 Under this Agenda Item, the Coordination Committee was informed on the contributions received and the expenditures made by the project during 2010.

Status of cost-sharing contributions

4.2 The Committee was informed on the status of cost-sharing contributions of the following States members of the project: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, French Guyana, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela, which detail is shown in **Table # 1** of next page.

4.3 The effort made by Suriname's authorities in order to update the payment of their overdue contributions to the project was highlighted, as the total amount due as of 2010, was transferred to ICAO.

4.4 Only four States of fourteenth REDDIG members have pending contributions and have been invited by the ICAO Regional Office to make their corresponding deposits as soon as possible.

4.5 The Central American Corporation for Air Navigation Services (COCESNA), in view of their adhesion to Project RLA/03/901 for the network interconnection of the MEVA II and REDDIG, has joined as a contributor to the project starting year 2010. Their initial contributions will constitute the reimbursement to REDDIG of the costs incurred for the interconnection of the two networks plus the recurrent costs corresponding to ATS speech circuits for the link maintenance in charge of the REDDIG Administration.

Summary of expenditures under Project RLA/03/901 between 2003 and 2010

4.6 The Secretariat informed to the Committee in detail the expenditures made by the project from 2003 to 2010 which are shown in **Table # 2**. The amount of expenses incurred in 2010 up to 31 December was of USD 859,829 plus USD 127,347 of unliquidated obligations as of that date, bringing the actual financial commitments assumed during the last year to the sum of USD 987,176.

4.7 The Committee was informed that the expenditures incurred for the MEVA II/REDDIG interconnection will be reimbursed to Project RLA/03/901 under the management services agreement between COCESNA and ICAO for this purpose under Project RLA/09/901, *Interconnection of COCESNA MEVA II Node and REDDIG*.

4.8 The budget prepared for 2011 has considered the bandwidth used by the States, based on the actual traffic of each node (see **Table # 4**). The forecasted expenditure amounts to USD 904,956, which should be financed with the remaining funds plus contributions for the year 2011 and the prior years' outstanding, according to the figures in Revision "O" of the budget proposed by the Secretariat.

4.9 Despite the favourable financial balance of the project, it will be necessary to receive timely the payment of 2011 so as not to hinder the implementation of project activities approved by this meeting. In this regard, the REDDIG Coordination Committee adopted the following conclusion:

Conclusion RCC 14/2 -**Cost-sharing contributions to Project RLA/03/901**

The States and organization member of the REDDIG are encouraged to make, as soon as possible, the necessary efforts for the deposit of their cost-sharing contributions to Project RLA/03/901 for the year 2011, as well as to update their payments those who have outstanding deposits of previous years.

RLA/03/901 Project Extension

4.10 The Committee was informed that the already initiated arrangements for the creation of a multinational organism for the definite administration of REDDIG will take an undetermined time until its performance can be realized, for which it would be appropriate to extend the duration of the project until December 2014 RLA/03/901 in order to support the necessary commitments to continue operating the network and to expand the coverage of services required by it.

4.11 Based on the work plan for 2011 approved, as well as on the updating of expenditures for 2010, the Coordination Committee considered the **Revision "O"** of the project RLA/03/901 budget proposed by the Secretariat, which includes the extension of the project until December 2014, and adopted the following conclusion:

Conclusion RCC 14/3 -**Budget approval of Project RLA/03/901, Revision O**

The budget proposed by the Secretariat as **Revision O** of Project RLA/03/901, as shown in **Appendix A** to this part of the Report of the REDDIG Fourteenth Meeting of the Coordination Committee, is approved, extending the duration of the project until 31 December 2014.

Table # 1
Situation of cost sharing contributions to Project RLA/03/901
from its inception until 2010

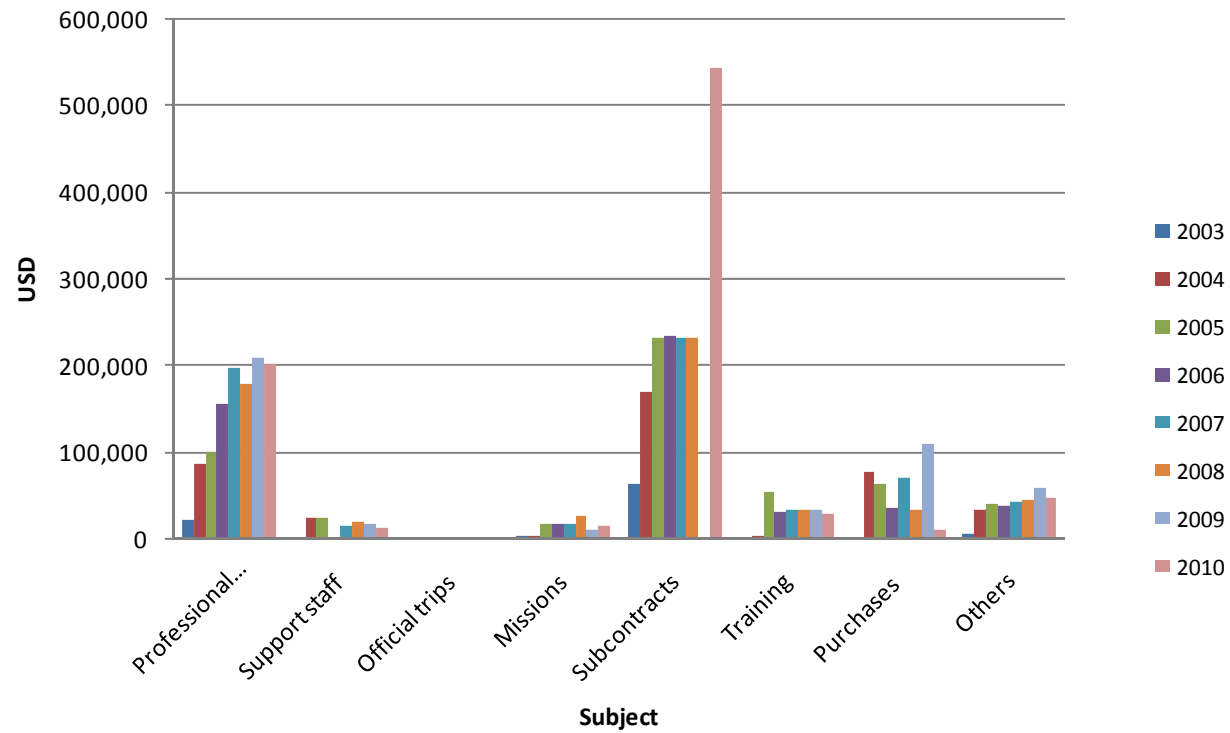
	2003		2004		2005		2006		2007		2008		2009		2010		Total Deposited	Debt
State	Quota	Debt	Quota	Debt	Quota	Deuda	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt		
Argentina	50,363	0	30,100	0	37,800	0	44,800	0	66,700	0	80,000	0	85,063	0	86,201	84,902	396,125	84,902
Bolivia	39,563	0	22,100	0	28,900	0	33,600	0	10,900	0	43,675	0	52,460	0	48,039	0	279,237	0
Brazil	123,790	0	72,900	0	79,400	0	111,000	0	60,800	0	81,444	0	118,154	0	137,644	-4,941	790,073	-4,941
Chile	40,013	0	35,100	0	36,400	0	67,000	0	28,710	0	29,500	0	29,500	0	1,000	0	267,223	0
Colombia	24,269	0	0,000	0	162,094	0	0,000	0	150,000	0	0	0	7,441	0	0	0	343,804	0
Ecuador	40,913	0	15,200	0	25,500	0	29,100	0	19,000	0	40,865	0	51,589	0	35,000	0	257,167	0
France	34,763	0	11,300	0	20,900	0	26,400	0	25,000	0	45,795	0	51,371	0	24,092	0	239,621	0
Guiana	34,313	0	9,900	0	19,900	0	22,900	0	15,000	0	35,935	0	43,009	0	30,000	10,249	200,708	10,249
Paraguay	35,363	0	12,700	0	21,900	0	30,700	0	25,600	0	46,160	0	53,262	0	47,056	47,056	225,685	47,056
Peru	49,613	0	28,300	0	36,500	0	39,700	0	40,000	0	71,372	0	77,820	0	78,271	0	421,576	0
Suriname	34,313	0	7,400	0	18,500	0	28,700	0	18,300	0	36,412	0	44,752	0	30,000	0	218,377	0
Uruguay	47,513	0	16,200	0	28,800	0	28,000	0	77,171	0	64,003	0	39,759	0	30,000	11,236	320,210	11,236
Venezuela	44,213	0	15,800	0	27,200	0	45,800	0	38,700	0	71,774	0	81,664	0	88,967	0	414,118	0
Trinidad and Tobago	0	0	0	0	22,700	0	22,700	0	15,500	0	37,791	0	48,776	0	30,000	40	177,427	40
Interests	1,447		4,765		9,685		16,157		17,065		8,630		1,943		785		60,477	N/A
COCESNA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,400	28,400	0	28,400
TOTAL	600,449	0	281,765	0	576,179	0	546,557	0	608,446	0	693,356	0	786,563	0	695,455	176,942	4,611,828	176,942

NOTE: Some differences between the amounts deposited by States and the reflected in the table are due to the banking costs per transaction.

Table # 2
Detailed breakdown of expenditures of Project RLA/03/901 between years 2003 and 2010
(2010 expenditures are subject to confirmation when receiving the definite financial statements)

[illegible]

Table # 3
Distribution of Expenditures 2003 - 2010
Project RLA/03/901



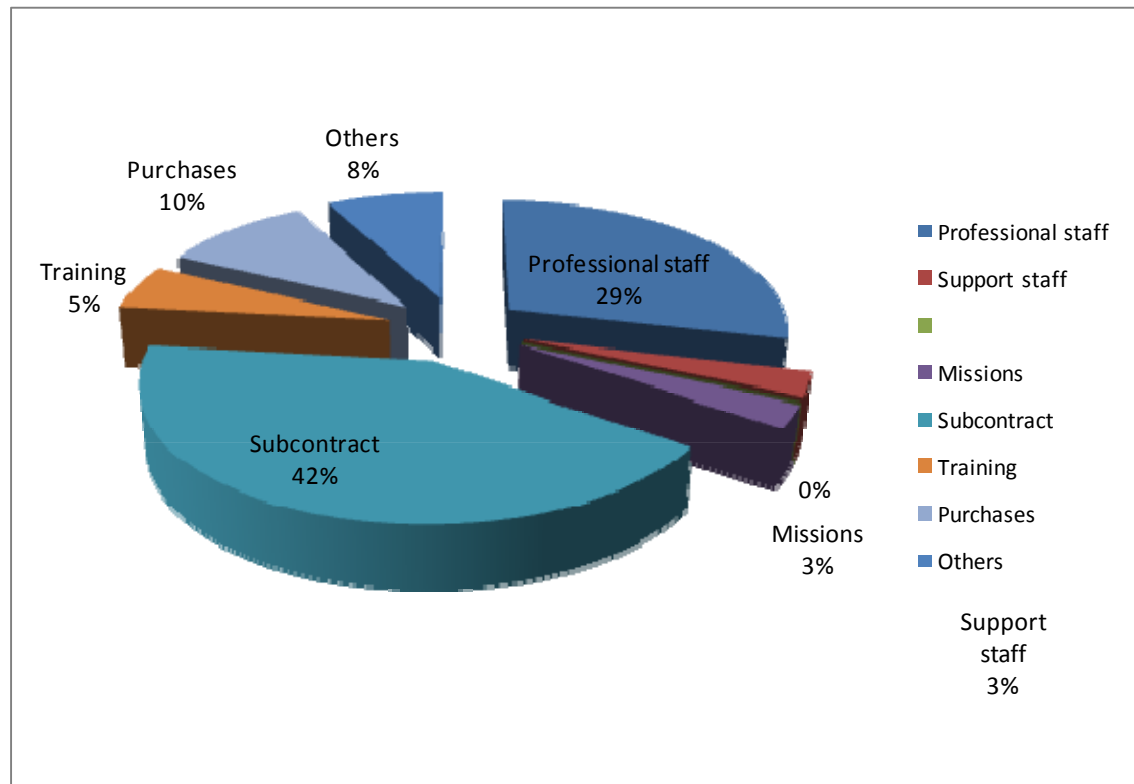


Table # 4
Percentage distribution of the use of the satellite segment

	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9	
	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%
Argentina	128.8	10.441%	140.5	10.539%	58.9	12.107%	97.0	14.560%	79.0	14.286%	76.2	17.209%	85.0	14.915%	96.7	15.534%	92.7	15.378%
Bolivia	71.2	5.772%	90.4	6.781%	28.0	5.755%	34.0	5.104%	32.5	5.877%	21.3	4.810%	30.7	5.387%	33.2	5.333%	30.2	5.010%
Brazil CT	112.0	9.079%	145.7	10.929%	64.4	13.237%	74.0	11.108%	47.7	8.626%	39.0	8.808%	57.0	10.002%	59.7	9.590%	50.1	8.311%
Brazil MN	43.2	3.502%	92	6.901%	41.2	8.469%	34.5	5.179%	33.4	6.040%	21.1	4.765%	33.1	5.808%	38.6	6.201%	41.9	6.951%
Brazil RF	85.6	6.939%	66.4	4.980%	7.5	1.542%	13.9	2.086%	10.9	1.971%	10.5	2.371%	12.3	2.158%	13.1	2.104%	12.5	2.074%
Chile	73.6	5.966%	132.8	9.961%	35.3	7.256%	66.9	10.042%	35.0	6.329%	16.7	3.771%	20.6	3.615%	21.7	3.486%	23.4	3.882%
Colombia	125.6	10.182%	124.8	9.361%	48.3	9.928%	58.1	8.721%	56.4	10.199%	32.3	7.294%	42.6	7.475%	41.3	6.635%	43.0	7.133%
Ecuador	78.4	6.355%	71.2	5.341%	17.5	3.597%	19.5	2.927%	26.1	4.720%	16.0	3.613%	28.7	5.036%	27.0	4.337%	28.2	4.678%
France	45.6	3.696%	44.8	3.360%	15.9	3.268%	30.4	4.563%	29.5	5.335%	25.3	5.714%	28.2	4.948%	26.4	4.241%	25.4	4.214%
Guyana	43.2	3.502%	39.2	2.940%	9.4	1.932%	8.3	1.246%	7.2	1.302%	6.7	1.513%	9.0	1.579%	9.6	1.542%	10.4	1.725%
Paraguay	48.8	3.956%	50.6	3.795%	24.8	5.098%	27.7	4.158%	16.4	2.966%	14.7	3.320%	18.8	3.299%	25.4	4.080%	21.8	3.616%
Peru	124.8	10.117%	133.2	9.991%	48.1	9.887%	75.7	11.363%	68.9	12.459%	64.0	14.453%	74.6	13.090%	76.9	12.353%	79.7	13.222%
Suriname	43.2	3.502%	31.2	2.340%	20.6	4.234%	15.8	2.372%	11.2	2.025%	7.6	1.716%	13.0	2.281%	17.0	2.731%	15.9	2.638%
Trinidad & Tobago							20.9	3.137%	9.2	1.664%	10.2	2.304%	13.4	2.351%	17.2	2.763%	17.4	2.887%
Uruguay	113.6	9.209%	89.6	6.721%	19.3	3.967%	33.5	5.029%	27.4	4.955%	26.0	5.872%	28.4	4.983%	29.4	4.723%	28.5	4.728%
Venezuela	96.0	7.782%	80.8	6.061%	47.3	9.723%	56.0	8.406%	62.2	11.248%	55.2	12.466%	74.5	13.072%	89.3	14.345%	81.7	13.553%
	1233.6	100%	1,333.20	100%	486.50	100%	666.20	100%	553.00	100%	442.80	100%	569.90	100%	622.50	100%	602.80	100%

APENDICE A / APPENDIX A

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL /
INTERNATIONAL CIVIL AVIATION ORGANIZATION

Documento de Revisión del Presupuesto / Budget Revision Document

Proyecto RLA/03/901 / Project RLA/03/901
Sistema de Gestión de la REDDIG y Administración del Segmento Satelita
REDDIG Management System and Satellite Segment Administration

Número del Proyecto / Project Number	RLA/03/901/O			
Duración / Duration	5 años ajustables / 5 years adjustable			
Fecha de inicio / Starting Date	Julio 2003 / July 2003			
Estados participantes / Participant States	Argentina, Bolivia, Brasil, Chile, Colombia, Ecuador, Francia, Guyana, Paraguay, Perú Suriname, Trinidad y Tabago, Uruguay y Venezuela			
Agencia de ejecución / Executing agency	OACI / ICAO			
Presupuesto total / Total budget	USD	7,632,037		
	Anterior / Previous	"N"	USD	6,035,377
	Revisión / Revision	"O"	USD	7,632,037
	Variación / Variation		USD	1,596,660
Breve descripción / Short description	El objetivo de este proyecto es establecer un mecanismo multinacional para la administración de la Red Digital Sudamericana (REDDIG), considerando para ello los desarrollos regionales en esta materia. Asimismo, mientras se establezca dicho mecanismo multinacional, el proyecto administrará temporalmente la REDDIG y conducirá implantaciones de aplicaciones en el ámbito CNS/ATM de acuerdo con los requerimientos del FASID CAR/SAM. / The objective of this project is to establish a multinational mechanism for the management of the South American Digital Network (REDDIG), considering the regional developments in this matter. Likewise, the project will temporarily manage the REDDIG while the multinational mechanism is established, and will conduct the implementation of CNS/ATM applications according to the requirements of the CAR/SAM FASID.			
Razones para la revisión / Reasons for the revision	Ajustar las cifras del año 2010 con los gastos reales incurridos y actualizar el presupuesto de los años subsiguientes, extendiendo la duración del proyecto hasta el 31 de diciembre de 2014. / Adjust 2010 figures with the actual expenses incurred and update the budget for the coming years, extending the project duration until 31 December 2014.			
Aprobada en nombre de / Approved on behalf of:	Firma / Signed	Nombre - Título / Name - Title Fecha / Date		

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America

Starting date: 01 July 2003

16-mar-11

Project: RLA/03/901/O

Termination date: 31 December 2014

Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

		TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
		US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
10	Project personnel																									
11	International staff																									
11.01	Network administrator	2,117,663	2.5	22,359	12.0	93,953	12.0	101,296	12.0	156,503	12.0	197,784	12.0	177,449	12.0	207,289	12.0	201,030	12.0	240,000	12.0	240,000	12.0	240,000	12.0	240,000
11.51	Institutional aspects																									
11.97	Consultants	59,196				-6,303								1,499						16,000		16,000		16,000		16,000
11.99	Sub-Total	2,176,859	2.5	22,359	12.0	87,650	12.0	101,296	12.0	156,503	12.0	197,784		178,948		207,289		201,030		256,000		256,000		256,000		256,000
13	Administrative support personnel																									
13-01	Bilingual secretary	183,092		354	6.0	12,185	6.0	12,551			6.0	15,968	6.0	11,471		16,497		14,066		25,000		25,000		25,000		25,000
13-02	REDDIG technician	24,819			12.0	12,000	12.0	12,108		711																
13-03	Manaus REDDIG technician	0																								
13-04	Bilingual secretary (settlement)	7,516												7,516												
13-05	Administrative and financial assistant	46,600																		11,200		11,800		11,800		11,800
13-06	Information technology clerk	38,700																		9,300		9,800		9,800		9,800
13.99	Sub-Total	300,727		354	18	24,185		24,659		711		15,968		18,987		16,497		14,066		45,500		46,600		46,600		46,600
15	Official travels	1,745				321		925		499																
16	Missions expenses	211,788		3,504		4,110		16,732		18,642		18,357		25,718		10,615		14,110		25,000		25,000		25,000		25,000
17	National Professionals	2,080														2,080										
19	Total of Component	2,693,199		26,217		116,266		143,612		176,355		232,109		223,653		236,481		229,206		326,500		327,600		327,600		327,600
20	Sub-Contracts																									
21.01	Renting of the satellite segment (P.O. 40670)																									
	P.O. 30473(1 Oct 2003 to 31 Dec 2003)	62,727		62,727																						
	P.O. 40670 (1 Jan 2005 to 31 Dec 2008)	2,853,489				168,849		231,264		231,264		231,264		231,264				462,528		324,264		324,264		324,264		324,264
21.02	Network Access	132,528																		33,132		33,132		33,132		33,132
21.03	MEVA/REDDIG Recurrent Brazil	11,760																		2,940		2,940		2,940		2,940
21.04	MEVA/REDDIG Recurrent Caracas	40,512																		10,128		10,128		10,128		10,128
21.05	MEVA/REDDIG Recurrent Bogota	40,080																		10,020		10,020		10,020		10,020
21.06	MEVA/REDDIG Recurrent Lima	11,760																		2,940		2,940		2,940		2,940
21.07	MEVA/REDDIG Non Recurrent	77,684																77,684								
21.98	Professional Liability Insurance	29,592				845		1,156		3,469				1,156		1,156		1,810		5,000		5,000		5,000		5,000
29	Total of Component	3,260,132		62,727		169,694		232,420		234,733		231,264		232,420		1,156		542,022		388,424		388,424		388,424		388,424

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America

Starting date: 01 July 2003

16-mar-11

Project: RLA/03/901/O

Termination date: 31 December 2014

Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

		TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
		US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
30	Training																									
'31	Individual fellowships																									
	31-01 SAEZ (MEMOTEC)	883						883																		
	31-02 SCEL (MEMOTEC)	858						858																		
	31-03 SEGU (MEMOTEC)	857						857																		
	31-04 SEGU (MEMOTEC)	857						857																		
	31-05 SOCA (MEMOTEC)	870						870																		
	31-06 SYGC (MEMOTEC)	857						857																		
	31-07 SMPM (MEMOTEC)	857						857																		
	31-08 SMPM (MEMOTEC)	857						857																		
	31-09 SVMI (MEMOTEC)	857						857																		
	31-10 SOCA (MEMOTEC)	870						870																		
	31-11 SVMI (MEMOTEC)	857						857																		
	31-12 SAEZ (VIASAT)	1,421						1,421																		
	31-13 SBMN (VIASAT)	1,421						1,421																		
	31-14 SGAS (MEMOTEC)	857						857																		
	31-15 SGAS (MEMOTEC)	857						857																		
	31-16 SUMU (MEMOTEC)	857						857																		
	31-17 SUMU (MEMOTEC)	857						857																		
	31-18 SLLP (MEMOTEC)	870						1,000				-130														
	31-19 SLLP (MEMOTEC)	870						1,000				-130														
	31-20 SVMI (MEMOTEC)	857						857																		
	31-21 SYGC (Salisbury)	1,017								1,017																
	31-22 SYGC (Stanley)	1,017								1,017																
	31-23 SMPM (Maharban)	876								1,017		-141														
	31-24 SMPM (Wakdi)	876								1,017		-141														
	31-25 SAEZ (Vittor)	1,017								1,017																
	31-26 SAEZ (Alaniz)	1,017								1,017																
	31-27 SKED (Ciro)	1,726								1,726																
	31-28 SKED (Sanchez)	1,726								1,726																
	31-29 SGAS (Torres)	1,659								1,659																
	31-30 SGAS (Pereira)	1,659								1,659																
	31-31 SLLP (Lara)	1,017								1,017																
	31-32 SLLP (Tito)	1,017								1,017																
	31-33 SUMU (Vera)	2,537								2,537																
	31-34 SUMU (Pelayo)	2,537								2,537																
	31-35 TTZP (Gunes)	1,017								1,017																
	31-36 TTZP (Rupnarine)	1,017								1,017																
	31-37 SEGU (Avellan)	987								987																
	31-38 SEGU (Cepeda)	987								987																
	31-39 SPIM (Cespedes)	2,142								2,142																
	31-40 SPIM (Donayre)	2,142								2,142																

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America

Starting date: 01 July 2003

16-mar-11

Project: RLA/03/901/O

Termination date: 31 December 2014

Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

	TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
31-41 SYGC (Mohanram)	1,323										1,323														
31-42 SYGC (Gittens, Troy)	1,323										1,323														
31-43 SGAS (Pereira, Aldo)	4,153										4,153														
31-44 SGAS (Torres, David)	2,251										2,251														
31-45 TTZP (McKay, Garvin)	1,323										1,323														
31-46 TTZP (Baboolal, Rupnarine)	1,323										1,323														
31-47 SUMU (Vera, Miguel)	2,460										2,460														
31-48 SUMU (Pelayo, Daniel)	2,460										2,460														
31-49 SEGU (Avellan, Raul)	2,623										2,623														
31-50 SEGU (Rugel, Arnoldo)	1,323										1,323														
31-51 SLLP (Balderrama, Barrios)	1,323										1,323														
31-52 SLLP (Huayllas, Hernan)	1,323										1,323														
31-53 SAEZ (Vittor, Cristian)	3,161										3,161														
31-54 SAEZ (Canna, Hernan)	3,161										3,161														
31-55 SPIM (Peralta, Donayre)	2,125										2,125														
31-56 SPIM (Velazquez Palomares)	2,125										2,125														
31-57 SAEZ (Carlos Adragna)	1,431												1,431												
31-58 SAEZ (Obdulio Gourarnalusse)	1,431												1,431												
31-59 SAEZ (Jaiver Schenk)	2,147												2,147												
31-60 SMPN (Rabindre Kumar)	1,118												1,118												
31-61 TTZP (Moses Brumant)	1,118												1,118												
31-62 TTZP (Garvin Mc Kay)	1,118												1,118												
31-63 SOCA (Gilles Marland)	1,118												1,118												
31-64 SOCA (Serge Diotallevi)	1,118												1,118												
31-65 SMPN (Mahabier Radjinderloemar)	1,118												1,118												
31-66 SAEZ (Carlos Adragna)	2,467												2,467												
31-67 SAEZ (O. Ferreyra)	2,467												2,467												
31-68 SGAS (J. Alarcón)	2,523												2,523												
31-69 SGAS (César Brizuela)	2,523												2,523												
31-70 SGAS (V. Morán)	2,523												2,523												
31-71 SUMU (I. Espalter)	2,272												2,272												
31-72 SUMU (E. Diaz)	2,272												2,272												
31-73 SPIM (S. Velásquez)	2,041												2,041												
31-74 SPIM (J. Wilson)	2,039												2,039												
31-75 SAEZ (C. Adragna)	1,022														1,022										
31-76 SAEZ (J. Vittor)	1,022														1,022										
31-77 SAEZ (M. Moreno)	1,022														1,022										
31-78 SGAS (A. Pereira)	1,830														1,830										
31-79 SGAS (V. Morán)	1,830														1,830										
31-80 SGAS (G. Baez)	1,830														1,830										
31-81 SPIM (J. García)	799														799										
31-82 SPIM (J. Salazar)	799														799										
31-83 SPIM (R. Peralta)	799														799										
31-84 SKED (N. Torres)	1,022														1,022										
31-85 SKED (G. Guzmán)	1,022														1,022										
31-86 SLLP (H. Balderrama)	1,022														1,022										

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America

Starting date: 01 July 2003

16-mar-11

Project: RLA/03/901/O

Termination date: 31 December 2014

Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

		TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
		US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
31-87	SLLP (P. Huayllas)	1,022														1,022										
31-88	SUMU (M. Vera)	1,010														1,010										
31-89	SUMU (E. Diaz)	1,010														1,010										
31-90	SYGC (M. Salisbury)	1,267														1,267										
31-91	SYGC (S. Jackson)	1,267														1,267										
31-92	SOCA (G. Marland)	1,267														1,267										
31-93	SEGU (A. Cepeda)	1,022														1,022										
31-94	SEGU (W. Quinde)	1,022														1,022										
34-03	TTZP (R. Halliday)	1,289														1,289										
34-04	TTZP (S. Saroop)	1,289														1,289										
31-95	SMPM (R. Maharban)	1,482																1,482								
31-96	SMPM (R. Lansdorf)	1,482																1,482								
31-97	SAEZ (C. Adragna)	2,121																2,121								
31-98	SAEZ (H. Canna)	1,248																1,248								
31-99	SUMU (W. Pelayo)	1,482																1,482								
36-01	SUMU (R. Facal)	1,482																1,482								
36-02	SVMI (A. Arias)	1,482																1,482								
36-03	SVMI (L. Escobar)	1,482																1,482								
36-04	SGAS (J. Estigarribia)	1,482																1,482								
36-05	SGAS (O. Pereira)	1,482																1,482								
36-06	SYGC (M. Salisbury)	1,482																1,482								
36-08	SEGU (B. Iglesias)	1,482																1,482								
36-09	SEGU (E. Cepeda)	1,482																1,482								
36-10	SCEL (C. Vergara)	1,482																1,482								
36-11	SKED (D. Rodríguez)	1,482																1,482								
31-88	SUMU (M. Vera)	-1,010																-1,010								
34-05	TTZP (S. Gopaul)	1,482																1,482								
31-75	SAEZ (C. Vittor)	873																873								
31-77	SAEZ (M. Moreno)	873																873								
31-99	Sub Total	383,323						18,611		28,277		33,238		32,852		25,488		24,858		55,000		55,000		55,000		55,000
33-01	Tuition MEMOTEC PO 50632	25,100						25,100																		
33-02	Tuition VIASATA P.O. 50661	9,950						9,950																		
33-98	Group Training	26,645								2,276		806		0		8,925		4,638		2,500		2,500		2,500		2,500
37-98	PLI	3,215				3,014		201																		
39	Total Training	448,233				3,014		53,862		30,553		34,044		32,852		34,413		29,496		57,500		57,500		57,500		57,500
40	Equipment																									
	Reimbursement RLA/98/019 (Customs)	-12,752				-12,752																				
45.01	Spare parts	0																								
	SAM REDDIG	398,816						45,930		17,750		6,889		17,957		102,072		8,218		50,000		50,000		50,000		50,000

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America
 Project: RLA/03/901/O
 Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

		TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
		US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
	SAEZ	3,377												2,458		919										
	SLLP	6,297										3,194		3,103		0										
	SBRF-SBMN-SBCT	20,464						6,490		13,824		150														
	SCEL	3,498						3,009		1,603		-1,494				380										
	SKED	20,254								84		14,466		3,207		2,498										
	SEGU	7,260						1,870		2,390		2,620				380										
	SOCA	240														240										
	SYGC	1,871										268		1,603		0										
	SGAS	8,363								660		5,467		2,236												
	SPIM	0																								
	SMPM	1,350										1,350														
	TTZP	3,503												1,723		1,780										
	SUMU	37,741										36,031		1,710												
	SVMI	5,179						2,242				2,697				240										
	Sub Total	505,461		0		-12,752		59,541		36,311		71,637		33,996.9		108,509		8,218		50,000		50,000		50,000		50,000
45.02	Office equipment for REDDIG	14,403		82						-30								351		3,500		3,500		3,500		3,500
	Laptop REDDIG	1,829						1,829								0										
	LINDY COMPU PO 50534 SBMN	254						254																		
	Sub Total	16,486		82		0		2,083		-30								351		3,500		3,500		3,500		3,500
45.03	Operation/maintenance office equipment	23,392				1,716				0								1,676		5,000		5,000		5,000		5,000
	PO 50522 VIASAT Repair of Modem SYGC	1,603						1,603																		
	CB LIMA	179						179																		
45.04	NCC transfer from SPIM to SBMN																									
	P.O. 040694 VIASAT	8,250				8,250																				
	P.O. 040687 MEMOTEC	4,250				4,250																				
45.05	Contract extension of SEEE (P.O. 40489)	50,000				50,000																				
45.06	Support network SEEE (P.O. 04090)	24,820				24,820																				
45.07	MEVA-REDDIG interconnection equipment	0																								
45.98	Professional liability insurance	5,463				444		284		246				130		1,109		1,250		500		500		500		500
45.99	Sub-Total	117,957		0		89,480		2,066		246		0		130		1,109		2,926		5,500		5,500		5,500		5,500
49	Total of Component	639,904		82		76,728		63,690		36,527		71,637		34,127		109,617		11,495		59,000		59,000		59,000		59,000
50	Others																									
	53.01 Other expenses	62,270		643		4,726		4,475		1,150		8,688		4,632		3,703		14,253		10,000		10,000		10,000		10,000
	53.02 UNDP services charges	960				118		505		337																
	53.99 Sub-Total	83,230		643		4,844		4,980		1,487		8,688		4,632		3,703		14,253		10,000		10,000		10,000		10,000
55	Administrative costs	507,339		6,439		28,795		35,817		37,372		34,601		39,503		55,621		33,357		63,532		56,482		57,910		57,910
59	Total of Component	590,569		7,082		33,639		40,797		38,859		43,289		44,135		59,324		47,610		73,532		66,482		67,910		67,910
	TOTAL OF PROJET	7,632,037		96,108		399,341		534,381		517,027		612,343		567,187		440,991		859,829		904,956		899,006		900,434		900,434

PROJECT BUDGET

(in U.S. dollars)

States: Regional for South America

Starting date: 01 July 2003

16-mar-11

Project: RLA/03/901/O

Termination date: 31 December 2014

Title: System for the Management of the REDDIG and the Administration of the Satellite Segment

		TOTAL	*-----	2003	*-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	*-----	2013	*-----	2014
		US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$	M/H	US\$
100	COSTS SHARED																									
101	Costs Shared Government																									
101.01	Argentina	745,001		50,363		30,100		37,800		44,800		66,700		80,000		85,063		86,201		82,500		81,968		81,968		17,538
101.02	Bolivia	437,023		39,563		22,100		28,900		33,600		10,900		43,675		52,460		48,039		43,924		43,105		43,105		27,653
101.03	Brazil	1,286,691		123,790		72,900		79,400		111,000		60,800		81,444		118,154		137,644		148,003		150,143		150,143		53,271
101.04	Chile	415,083		40,013		35,100		36,400		67,000		28,710		29,500		29,500		1,000		45,000		44,791		44,791		13,277
101.05	Colombia	562,325		24,269		0		162,094		0		150,000		0		7,441		0		67,201		65,572		65,572		20,176
101.06	Ecuador	411,992		40,913		15,200		25,500		29,100		19,000		40,865		51,589		35,000		35,000		47,701		47,701		24,423
101.07	France	393,473		34,763		11,300		20,900		26,400		25,000		45,795		51,371		24,092		42,203		42,372		42,372		26,906
101.08	Guiana	324,571		34,313		9,900		19,900		22,900		15,000		35,935		43,009		30,000		30,000		33,148		33,148		17,318
101.09	Paraguay	415,597		35,363		12,700		21,900		30,700		25,600		46,160		53,262		47,056		40,162		41,823		41,823		19,050
101.10	Peru	655,595		49,613		28,300		36,500		39,700		40,000		71,372		77,820		78,271		77,000		68,037		77,037		11,945
101.11	Suriname	347,883		34,313		7,400		18,500		28,700		18,300		36,412		44,752		30,000		30,000		37,211		37,211		25,085
101.12	Uruguay	472,121		47,513		16,200		28,800		28,000		77,171		64,003		39,759		30,000		30,000		44,019		44,019		22,637
101.13	Venezuela	689,016		44,213		15,800		27,200		45,800		38,700		71,774		81,664		88,967		80,000		87,033		87,033		20,832
101.14	Interests	60,477		1,447		4,765		9,685		16,157		17,065		8,630		1,943		785		0		0		0		
101-15	Trinidad & Tobago	310,018		0		0		22,700		22,700		15,500		37,791		48,776		30,000		30,000		37,321		37,321		27,910
101-16	COCESNA	105,172												0		0		28,400		19,193		19,193		19,193		19,193
101.99	Sub-Total	7,632,038		600,449		281,765		576,179		546,557		608,446		693,356		786,563		695,455		800,185		843,434		852,434		347,215
109	TOTAL OF COMPONENT	7,632,038		600,449		281,765		576,179		546,557		608,446		693,356		786,563		695,455		800,185		843,434		852,434		347,215
	BL-99 - BL 109	0		-504,341		117,576		-41,798		-29,530		3,897		-126,169		-345,572		164,374		104,771		55,572		48,000		553,219

COST DISTRIBUTION OF SATELLITE SEGMENT
(in U.S. dollars)

Project: RLA/03/901/O
Title: #REF!

16-mar-11

Cost Satellite Segment		AOSC	SRP	Total
2003 USD	62,727	3,764	0	66,491
2004 USD	168,849	8,754	845	178,448
2005 USD	231,264	9,251	1,156	241,671
2006 USD	231,264	5,966	3,469	240,699
2007 USD	231,264	3,469	0	234,733
2008 USD	231,264	10,126	1,156	242,546
2009 USD	0	10,376	1,156	11,532
2010 USD	462,528	12,500	1,810	476,838
2011 USD	324,264	12,500	5,000	341,764
2012 USD	324,264	12,500	5,000	341,764
2013 USD	324,264	12,500	5,000	341,764
2014 USD	324,264	12,500	5,000	341,764
TOTAL	2,853,489	114,206	29,592	3,060,014

AOSC Satellite Segment Calculation	
First USD 100,000 @ 6%	
First USD 400,000 @ 4%	
Remaining at 1.5%	
AOSC 2003	3,764
AOSC 2004	8,754
AOSC 2005	9,251
AOSC 2006	5,966
AOSC 2007	3,469
AOSC 2008	10,126
AOSC 2009	10,376
AOSC 2010	

2003					2004					2005				
TOTALES	AOSC	PAS	TOTAL		AOSC	SRP	PAS	TOTAL		AOSC	SRP	PAS	TOTAL	
Argentina	452,946	393	6,549	6,942	923	89	17,794	18,806	1,120	140	27,999	29,259	29,259	
Bolivia	165,451	217	3,620	3,838	594	57	11,449	12,100	532	67	13,310	13,909	13,909	
Brazil	299,494	342	5,695	6,037	957	92	18,453	19,502	1,225	153	30,613	31,991	31,991	
Brazil	190,878	132	2,197	2,328	604	58	11,652	12,314	783	98	19,585	20,466	20,466	
Brazil	71,574	261	4,353	4,614	436	42	8,410	8,888	143	18	3,565	3,726	3,726	
Chile	153,500	225	3,742	3,967	872	84	16,819	17,775	671	84	16,780	17,535	17,535	
Colombia	234,993	383	6,387	6,770	819	79	15,806	16,704	918	115	22,960	23,993	23,993	
Ecuador	131,059	239	3,987	4,226	468	45	9,017	9,530	333	42	8,319	8,693	8,693	
France	132,393	139	2,319	2,458	294	28	5,674	5,996	302	38	7,558	7,898	7,898	
Guiana	51,214	132	2,197	2,328	257	25	4,965	5,247	179	22	4,468	4,669	4,669	
Paraguay	120,776	149	2,481	2,630	332	32	6,408	6,773	472	59	11,789	12,320	12,320	
Peru	372,363	381	6,346	6,727	875	84	16,870	17,829	915	114	22,865	23,894	23,894	
Suriname	81,663	132	2,197	2,328	205	20	3,951	4,176	392	49	9,792	10,233	10,233	
Trinidad & Tobago	68,684	0	0	0	0	0	0	0	0	0	0	0	0	
Uruguay	153,356	347	5,776	6,123	588	57	11,348	11,993	367	46	9,175	9,587	9,587	
Venezuela	379,672	293	4,881	5,174	531	51	10,233	10,815	899	112	22,485	23,496	23,496	
3,060,014	3,764	62,727	66,491		8,754	845	168,849	178,448	9,251	1,156	231,264	241,671		

2006					2007					2008				
AOSC	SRP	PAS	TOTAL		AOSC	SRP	PAS	TOTAL		AOSC	SRP	PAS	TOTAL	
Argentina	869	505	33,672	35,046	496	0	33,038	33,533	1,743	199	39,797	41,739	41,739	
Bolivia	304	177	11,803	12,284	204	0	13,591	13,795	487	56	11,124	11,667	11,667	
Brazil	663	385	25,688	26,736	299	0	19,948	20,247	892	102	20,369	21,362	21,362	
Brazil	309	180	11,976	12,465	210	0	13,968	14,177	483	55	11,020	11,558	11,558	
Brazil	124	72	4,825	5,022	68	0	4,558	4,627	240	27	5,484	5,751	5,751	
Chile	599	348	23,224	24,171	220	0	14,637	14,857	382	44	8,722	9,148	9,148	
Colombia	520	303	20,169	20,992	354	0	23,586	23,940	739	84	16,870	17,692	17,692	
Ecuador	175	102	6,769	7,045	164	0	10,915	11,079	366	42	8,356	8,764	8,764	
France	272	158	10,553	10,984	185	0	12,337	12,522	579	66	13,214	13,858	13,858	
Guiana	74	43	2,881	2,999	45	0	3,011	3,056	153	17	3,499	3,670	3,670	
Paraguay	248	144	9,616	10,008	103	0	6,858	6,961	336	38	7,677	8,052	8,052	
Peru	678	394	26,278	27,351	432	0	28,814	29,246	1,464	167	33,426	35,056	35,056	
Suriname	141	82	5,485	5,709	70	0	4,684	4,754	174	20	3,969	4,163	4,163	
Trinidad & Tobago	187	109	7,255	7,551	58	0	3,847	3,905	233	27	5,327	5,587	5,587	
Uruguay	300	174	11,629	12,104	172	0	11,459	11,631	595	68	13,579	14,242	14,242	
Venezuela	501	292	19,440	20,233	390	0	26,012	26,402	1,262	144	28,830	30,236	30,236	
5,966	3,469	231,264	240,699		3,469	0	231,264	234,733	10,126	1,156	231,264	242,546		

2009					2010					2011				
AOSC	SRP	PAS	TOTAL		AOSC	SRP	PAS	TOTAL		AOSC	SRP	PAS	TOTAL	
Argentina	1,548	172	0	1,720	1,942	281	71,850	74,073	1,922	769	49,866	52,557	52,557	
Bolivia	559	62	0	621	667	97	24,668	25,431	626	250	16,245	17,122	17,122	
Brazil	1,038	116	0	1,153	1,199	174	44,358	45,730	1,039	416	26,950	28,405	28,405	
Brazil	603	67	0	670	775	112	28,680	29,568	869	348	22,539	23,756	23,756	
Brazil	224	25	0	249	263	38	9,734	10,035	259	104	6,724	7,087	7,087	
Chile	375	42	0	417	436	63	16,123	16,622	485	194	12,588	13,267	13,267	
Colombia	776	86	0	862	829	120	30,687	31,636	892	357	23,131	24,379	24,379	
Ecuador	523	58	0	581	542	79	20,061	20,682	585	234	15,170	15,988	15,988	
France	513	57	0	571	530	77	19,616	20,223	527	211	13,663	14,401	14,401	
Guiana	164	18	0	182	193	28	7,133	7,354	216	86	5,594	5,896	5,896	
Paraguay	342	38	0	380	510	74	18,873	19,457	452	181	11,727	12,360	12,360	
Peru	1,358	151	0	1,510	1,544	224	57,138	58,906	1,653	661	42,873	45,187	45,187	
Suriname	237	26	0	263	341	49	12,631	13,022	330	132	8,553	9,015	9,015	
Trinidad & Tobago	244	27	0	271	345	50	12,780	13,175	361	144	9,360	9,865	9,865	
Uruguay	517	58	0	575	590	85	21,845	22,521	591	236	15,331	16,158	16,158	
Venezuela	1,356	151	0	1,508	1,793	260	66,351	68,404	1,694	678	43,949	46,321	46,321	
10,376	1,156	0	11,532		12,500	1,810	462,528	476,838	12,500	5,000	324,264	341,764		

	2012				2013				2014			
	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL
Argentina	1,942	777	50,372	53,090	1,942	777	50,372	53,090	1,942	777	50,372	53,090
Bolivia	667	267	17,294	18,227	667	267	17,294	18,227	667	267	17,294	18,227
Brazil	1,199	480	31,098	32,776	1,199	480	31,098	32,776	1,199	480	31,098	32,776
Brazil	775	310	20,107	21,192	775	310	20,107	21,192	775	310	20,107	21,192
Brazil	263	105	6,824	7,192	263	105	6,824	7,192	263	105	6,824	7,192
Chile	436	174	11,304	11,914	436	174	11,304	11,914	436	174	11,304	11,914
Colombia	829	332	21,513	22,674	829	332	21,513	22,674	829	332	21,513	22,674
Ecuador	542	217	14,064	14,823	542	217	14,064	14,823	542	217	14,064	14,823
France	530	212	13,752	14,494	530	212	13,752	14,494	530	212	13,752	14,494
Guiana	193	77	5,001	5,271	193	77	5,001	5,271	193	77	5,001	5,271
Paraguay	510	204	13,231	13,945	510	204	13,231	13,945	510	204	13,231	13,945
Peru	1,544	618	40,058	42,220	1,544	618	40,058	42,220	1,544	618	40,058	42,220
Suriname	341	137	8,855	9,333	341	137	8,855	9,333	341	137	8,855	9,333
Trinidad & Tobago	345	138	8,960	9,443	345	138	8,960	9,443	345	138	8,960	9,443
Uruguay	590	236	15,315	16,141	590	236	15,315	16,141	590	236	15,315	16,141
Venezuela	1,793	717	46,517	49,027	1,793	717	46,517	49,027	1,793	717	46,517	49,027
	12,500	5,000	324,264	341,764	12,500	5,000	324,264	341,764	12,500	5,000	324,264	341,764

DISTRIBUCION PORCENTUAL DE USO DEL SEGMENTO SATELITAL/
PERCENTUAL DISTRIBUTION OF THE USE OF THE SATELLITE SEGMENT
(En dólares EE.UU./In US Dollars)

16-mar-11

Pais/Country: Regional para Sudamérica/Regional for South America
Proyecto/Project: RLA/03/901/O
Titulo/Title: Sistema de Gestión de la REDDIG y Administración del Segmento Satelital / REDDIG Management System and Administration of the Satellite Segment

	2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014	
	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9		Year 10		Year 11		Year 12	
	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%
Argentina	128.8	10.441%	140.5	10.539%	58.9	12.107%	97.0	14.560%	79.0	14.286%	76.2	17.209%	85.0	14.915%	96.7	15.534%	92.7	15.378%	96.7	15.534%	96.7	15.534%	96.7	15.534%
Bolivia	71.2	5.772%	90.4	6.781%	28.0	5.755%	34.0	5.104%	32.5	5.877%	21.3	4.810%	30.7	5.387%	33.2	5.333%	30.2	5.010%	33.2	5.333%	33.2	5.333%	33.2	5.333%
Brasil	112.0	9.079%	145.7	10.929%	64.4	13.237%	74.0	11.108%	47.7	8.626%	39.0	8.808%	57.0	10.002%	59.7	9.590%	50.1	8.311%	59.7	9.590%	59.7	9.590%	59.7	9.590%
Brasil	43.2	3.502%	92	6.901%	41.2	8.469%	34.5	5.179%	33.4	6.040%	21.1	4.765%	33.1	5.808%	38.6	6.201%	41.9	6.951%	38.6	6.201%	38.6	6.201%	38.6	6.201%
Brasil	85.6	6.939%	66.4	4.980%	7.5	1.542%	13.9	2.086%	10.9	1.971%	10.5	2.371%	12.3	2.158%	13.1	2.104%	12.5	2.074%	13.1	2.104%	13.1	2.104%	13.1	2.104%
Chile	73.6	5.966%	132.8	9.961%	35.3	7.256%	66.9	10.042%	35.0	6.329%	16.7	3.771%	20.6	3.615%	21.7	3.486%	23.4	3.882%	21.7	3.486%	21.7	3.486%	21.7	3.486%
Colombia	125.6	10.182%	124.8	9.361%	48.3	9.928%	58.1	8.721%	56.4	10.199%	32.3	7.294%	42.6	7.475%	41.3	6.635%	43.0	7.133%	41.3	6.635%	41.3	6.635%	41.3	6.635%
Ecuador	78.4	6.355%	71.2	5.341%	17.5	3.597%	19.5	2.927%	26.1	4.720%	16.0	3.613%	28.7	5.036%	27.0	4.337%	28.2	4.678%	27.0	4.337%	27.0	4.337%	27.0	4.337%
France	45.6	3.696%	44.8	3.360%	15.9	3.268%	30.4	4.563%	29.5	5.335%	25.3	5.714%	28.2	4.948%	26.4	4.241%	25.4	4.214%	26.4	4.241%	26.4	4.241%	26.4	4.241%
Guyana	43.2	3.502%	39.2	2.940%	9.4	1.932%	8.3	1.246%	7.2	1.302%	6.7	1.513%	9.0	1.579%	9.6	1.542%	10.4	1.725%	9.6	1.542%	9.6	1.542%	9.6	1.542%
Paraguay	48.8	3.956%	50.6	3.795%	24.8	5.098%	27.7	4.158%	16.4	2.966%	14.7	3.320%	18.8	3.299%	25.4	4.080%	21.8	3.616%	25.4	4.080%	25.4	4.080%	25.4	4.080%
Perú	124.8	10.117%	133.2	9.991%	48.1	9.887%	75.7	11.363%	68.9	12.459%	64.0	14.453%	74.6	13.090%	76.9	12.353%	79.7	13.222%	76.9	12.353%	76.9	12.353%	76.9	12.353%
Suriname	43.2	3.502%	31.2	2.340%	20.6	4.234%	15.8	2.372%	11.2	2.025%	7.6	1.716%	13.0	2.281%	17.0	2.731%	15.9	2.638%	17.0	2.731%	17.0	2.731%	17.0	2.731%
Trinidad y Tabago							20.9	3.137%	9.2	1.664%	10.2	2.304%	13.4	2.351%	17.2	2.763%	17.4	2.887%	17.2	2.763%	17.2	2.763%	17.2	2.763%
Uruguay	113.6	9.209%	89.6	6.721%	19.3	3.967%	33.5	5.029%	27.4	4.955%	26.0	5.872%	28.4	4.983%	29.4	4.723%	28.5	4.728%	29.4	4.723%	29.4	4.723%	29.4	4.723%
Venezuela	96.0	7.782%	80.8	6.061%	47.3	9.723%	56.0	8.406%	62.2	11.248%	55.2	12.466%	74.5	13.072%	89.3	14.345%	81.7	13.553%	89.3	14.345%	89.3	14.345%	89.3	14.345%
	1,233.60	100%	1,333.20	100%	486.50	100%	666.20	100%	553.00	100%	442.80	100%	569.90	100%	622.50	100%	602.80	100%	622.50	100%	622.50	100%	622.50	100%

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-01	Argentina	2003	July	1	50,363		50,363	0	396,125
		2004	July	1	30,100		30,100	0	
		2005	July	1	37,800		37,800	0	
		2006	July	1	44,800		44,800	0	
		2007	July	1	66,700		66,700	0	
		2008	July	1	80,000		80,000	0	
		2009	July	1	85,063		85,063	0	
		2010	July	1	86,201		1,299	84,902	
		2011	July	1	82,500			82,500	
		2012	July	1	81,968			81,968	
		2013	July	1	81,968			81,968	
		2014	July	1	17,538			17,538	
		TOTAL				745,001	396,125	348,876	
101-02	Bolivia	2003	July	1	39,563		39,563	0	279,237
		2004	July	1	22,100		22,100	0	
		2005	July	1	28,900		28,900	0	
		2006	July	1	33,600		33,600	0	
		2007	July	1	10,900		10,900	0	
		2008	July	1	43,675		43,675	0	
		2009	July	1	52,460		52,460	0	
		2010	July	1	48,039		48,039	0	
		2011	July	1	43,924			43,924	
		2012	July	1	43,105			43,105	
		2013	July	1	43,105			43,105	
		2014	July	1	27,653			27,653	
		TOTAL				437,023	279,237	157,786	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions					Situation			Total Contribution Received
		Year	Month	Day	Amount	To be paid	Deposited	Saldo	
101-03	Brazil	2003	July	1	123,790		123,790	0	790,073
		2004	July	1	72,900		72,900	0	
		2005	July	1	79,400		79,400	0	
		2006	July	1	111,000		111,000	0	
		2007	July	1	60,800		60,800	0	
		2008	July	1	81,444		81,444	0	
		2009	July	1	118,154		118,154	0	
		2010	July	1	137,644		142,585	-4,941	
		2011	July	1	148,003			148,003	
		2012	July	1	150,143			150,143	
		2013	July	1	150,143			150,143	
		2014	July	1	53,271			53,271	
		TOTAL				1,286,691	790,073	496,618	
101-04	Chile	2003	July	1	40,013		40,013	0	267,223
		2004	July	1	35,100		35,100	0	
		2005	July	1	36,400		36,400	0	
		2006	July	1	67,000		67,000	0	
		2007	July	1	28,710		28,710	0	
		2008	July	1	29,500		29,500	0	
		2009	July	1	29,500		29,500	0	
		2010	July	1	1,000		1,000	0	
		2011	July	1	45,000			45,000	
		2012	July	1	44,791			44,791	
		2013	July	1	44,791			44,791	
		2014	July	1	13,277			13,277	
		TOTAL				415,083	267,223	147,860	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-05	Colombia	2003	July	1	24,269		24,269	0	343,804
		2004	July	1	0		0	0	
		2005	July	1	162,094		162,094	0	
		2006	July	1	0		0	0	
		2007	July	1	150,000		150,000	0	
		2008	July	1	0		0	0	
		2009	July	1	7,441		7,441	0	
		2010	July	1	0		0	0	
		2011	July	1	67,201			67,201	
		2012	July	1	65,572			65,572	
		2013	July	1	65,572			65,572	
		2014	July	1	20,176			20,176	
		TOTAL				562,325	343,804	218,521	
101-06	Ecuador	2003	July	1	40,913		40,913	0	257,167
		2004	July	1	15,200		15,200	0	
		2005	July	1	25,500		25,500	0	
		2006	July	1	29,100		29,100	0	
		2007	July	1	19,000		19,000	0	
		2008	July	1	40,865		40,865	0	
		2009	July	1	51,589		51,589	0	
		2010	July	1	35,000		35,000	0	
		2011	July	1	35,000			35,000	
		2012	July	1	47,701			47,701	
		2013	July	1	47,701			47,701	
		2014	July	1	24,423			24,423	
		TOTAL				411,992	257,167	154,825	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-07	France	2003	July	1	34,763		34,763	0	239,621
		2004	July	1	11,300		11,300	0	
		2005	July	1	20,900		20,900	0	
		2006	July	1	26,400		26,400	0	
		2007	July	1	25,000		25,000	0	
		2008	July	1	45,795		45,795	0	
		2009	July	1	51,371		51,371	0	
		2010	July	1	24,092		24,092	0	
		2011	July	1	42,203			42,203	
		2012	July	1	42,372			42,372	
		2013	July	1	42,372			42,372	
		2014	July	1	26,906			26,906	
		TOTAL				393,473	239,621	153,852	
101-08	Guiana	2003	July	1	34,313		34,313	0	200,728
		2004	July	1	9,900		9,900	0	
		2005	July	1	19,900		19,900	0	
		2006	July	1	22,900		22,900	0	
		2007	July	1	15,000		15,000	0	
		2008	July	1	35,935		35,935	0	
		2009	July	1	43,009		43,009	0	
		2010	July	1	30,000		19,771	10,229	
		2011	July	1	30,000			30,000	
		2012	July	1	33,148			33,148	
		2013	July	1	33,148			33,148	
		2014	July	1	17,318			17,318	
		TOTAL				324,571	200,728	123,843	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-09	Paraguay	2003	July	1	35,363		35,363	0	225,685
		2004	July	1	12,700		12,700	0	
		2005	July	1	21,900		21,900	0	
		2006	July	1	30,700		30,700	0	
		2007	July	1	25,600		25,600	0	
		2008	July	1	46,160		46,160	0	
		2009	July	1	53,262		53,262	0	
		2010	July	1	47,056		0	47,056	
		2011	July	1	40,162			40,162	
		2012	July	1	41,823			41,823	
		2013	July	1	41,823			41,823	
		2014	July	1	19,050			19,050	
		TOTAL				415,597	225,685	189,912	
101-10	Peru	2003	July	1	49,613		49,613	0	421,576
		2004	July	1	28,300		28,300	0	
		2005	July	1	36,500		36,500	0	
		2006	July	1	39,700		39,700	0	
		2007	July	1	40,000		40,000	0	
		2008	July	1	71,372		71,372	0	
		2009	July	1	77,820		77,820	0	
		2010	July	1	78,271		78,271	0	
		2011	July	1	77,000			77,000	
		2012	July	1	68,037			68,037	
		2013	July	1	77,037			77,037	
		2014	July	1	11,945			11,945	
			July		TOTAL	655,595	421,576	234,019	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

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101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-11	Suriname	2003	July	1	34,313		34,313	0	218,377
		2004	July	1	7,400		7,400	0	
		2005	July	1	18,500		18,500	0	
		2006	July	1	28,700		28,700	0	
		2007	July	1	18,300		18,300	0	
		2008	July	1	36,412		36,412	0	
		2009	July	1	44,752		44,752	0	
		2010	July	1	30,000		30,000	0	
		2011	July	1	30,000			30,000	
		2012	July	1	37,211			37,211	
		2013	July	1	37,211			37,211	
		2014	July	1	25,085			25,085	
			July		TOTAL	347,883	218,377	129,506	
101-12	Uruguay	2003	July	1	47,513		47,513	0	320,209
		2004	July	1	16,200		16,200	0	
		2005	July	1	28,800		28,800	0	
		2006	July	1	28,000		28,000	0	
		2007	July	1	77,171		77,171	0	
		2008	July	1	64,003		64,003	0	
		2009	July	1	39,759		39,759	0	
		2010	July	1	30,000		18,763	11,237	
		2011	July	1	30,000			30,000	
		2012	July	1	44,019			44,019	
		2013	July	1	44,019			44,019	
		2014	July	1	22,637			22,637	
					TOTAL	472,121	320,209	151,911	

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

16-mar-11

101	Government Cost Sharing Contributions				Amount	Situation			Total Contribution Received
		Year	Month	Day		To be paid	Deposited	Saldo	
101-13	Venezuela	2003	July	1	44,213		44,213	0	414,118
		2004	July	1	15,800		15,800	0	
		2005	July	1	27,200		27,200	0	
		2006	July	1	45,800		45,800	0	
		2007	July	1	38,700		38,700	0	
		2008	July	1	71,774		71,774	0	
		2009	July	1	81,664		81,664	0	
		2010	July	1	88,967		88,967	0	
		2011	July	1	80,000			80,000	
		2012	July	1	87,033			87,033	
		2013	July	1	87,033			87,033	
		2014	July	1	20,832			20,832	
		TOTAL				689,016	414,118	274,898	
101-14	Interests	2003			1,447		1,447		
		2004			4,765		4,765		
		2005			9,685		9,685		
		2006			16,157		16,157		
		2007			17,065		17,065		
		2008			8,630		8,630		
		2009			1,943		1,943		
		2010			785		785		
		2011			0		0		
		2012			0		0		
		2013			0		0		
		2014			0		0		
		TOTAL				60,477	60,477		

PAYMENT SCHEDULE

States: Regional for South America
 Project: RLA/03/901/O
 Title: #REF!

Starting date: 01 July 2003
 Termination date: 31 December 2014

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101	Government Cost Sharing Contributions					Situation			Total Contribution Received
		Year	Month	Day	Amount	To be paid	Deposited	Saldo	
101-15	Trinidad & Tobago	2005	Dec.	1	22,700		22,700	0	177,427
		2006	July	1	22,700		22,700	0	
		2007	July	1	15,500		15,500	0	
		2008	July	1	37,791		37,791	0	
		2009	July	1	48,776		48,776	0	
		2010	July	1	30,000		29,960	40	
		2011	July	1	30,000			30,000	
		2012	July	1	37,321			37,321	
		2013	July	1	37,321			37,321	
		2014	July	1	27,910			27,910	
		TOTAL					310,018	177,427	
101-16	COCESNA	2009	July	1	0		0	0	
		2010	July	1	28,400		0	28,400	
		2011	July	1	19,193			19,193	
		2012	July	1	19,193			19,193	
		2013	July	1	19,193			19,193	
		2014	July	1	19,193			19,193	
		TOTAL					105,172	0	105,172
TOTAL:					7,632,038	4,611,847	3,020,190		

RLA/03/901 - Sistema de Gestión de la REDDIG y Administración del Segmento Satelital / REDDIG Management System and Satellite Segment Administration
REGISTRO DE PAGOS DE LAS CONTRIBUCIONES DE COSTOS COMPARTIDOS / PAYMENT RECORD OF COST SHARING CONTRIBUTIONS

16-mar-11

STATE	2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		Total		Contributions pending
	Contributio n scheduled	Contribution received	Contribution scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contribution received	Contributio n scheduled	Contributions received	
Dates	01-Jul-03		01-Jul-04		01-Jul-05		01-Jul-06		01-Jul-07		01-Jul-08		01-Jul-09		01-Jul-10		01-Jul-11		01-Jul-12		01-Jul-13		01-Jul-14				
ARG	50,363	50,329	30,100	25-Jun-04 10,298 10-06-04 21,180 2,753	37,800	2,453 33,670	44,800	46,800	66,700	65,423	80,000	41,541 36,119	85,063	76,857 8,702	86,201		82,500		81,968		81,968		17,538		745,001	396,125	348,876
BOL	39,563		22,100	22,090	28,900	11,401 11,411 11,411 11,411	33,600	22,821 33,600	10,900	10,920	43,675	43,675	52,460	52,460	48,039	48,039	43,924		43,105		43,105		27,653		437,023	279,237	157,786
BRA	123,790	11-06-03 123,780	72,900	10-Aug-04 72,890 5,064	79,400	74,346	111,000	113,775	60,800	58,035	81,444	81,444	118,154	118,039	137,644	142,700	148,003		150,143		150,143		53,271		1,286,691	790,073	496,618
CHI	40,013	40,003	35,100	35,100 936 30,990 13,040	36,400	26,734 49,990	67,000	10,430	28,710		29,500	29,500	29,500	29,500	1,000	1,000	45,000		44,791		44,791		13,277		415,083	267,223	147,860
COL	24,269	27-Nov-03 24,269	0		162,094	162,094	0		150,000	150,000	0		7,441	7,441	0	0	67,201		65,572		65,572		20,176		562,325	343,804	218,521
ECU	40,913	07-Jul-03 40,903	15,200	19,559	25,500	21,151	29,100	29,100	19,000	19,000	40,865	40,865	51,589	51,589	35,000	35,000	35,000		47,701		47,701		24,423		411,992	257,167	154,825
FRA	34,763	5 Nov-03 33,941	11,300	12,112	20,900	20,910	26,400	26,400	25,000	25,000	45,795	45,795	51,371	51,371	24,092	24,092	42,203		42,372		42,372		26,906		393,473	239,621	153,852
GUY	34,313		9,900	07-29-04 44,203	19,900	10,006	22,900	10,278	15,000	12,480	35,935	18,355 17,043	43,009	29,119	30,000	43,870	30,000		33,148		33,148		17,318		324,571	200,728	123,843
PAR	35,363	6-Oct-03 42,550	12,700	5,503	21,900	18,700 3,210	30,700	30,700	25,600	25,600	46,160	46,160	53,262	53,262	47,056		40,162		41,823		41,823		19,050		415,597	225,685	189,912
PER	49,613	20-Nov-03 49,603	28,300	22-Jul-04 28,290 1,370	36,500	35,140	39,700	39,700	40,000	40,010	71,372	71,372	77,820	77,820	78,271	78,271	77,000		68,037		77,037		11,945		655,595	421,576	234,019
SUR	34,313		7,400	41,693	18,500	18,505	28,700		18,300	14,335	36,412	14,335	44,752	18,330	30,000		30,000	111,179	37,211		37,211		25,085		347,883	218,377	129,506
URU	47,513	24 Jul-03 47,478	16,200	16,166	28,800	28,854	28,000	27,985	77,171	22,985 54,171	64,003	0 52,871	39,759	39,729	30,000	29,970	30,000		44,019		44,019		22,637		472,121	320,209	151,911
VEN	44,213	22 July-03 44,203	15,800	03-08-04 15,790	27,200	27,220	45,800	45,800	38,700	38,700	71,774	71,774	81,664	81,664	88,967	88,967	80,000		87,033		87,033		20,832		689,016	414,118	274,898
INT	N/A	1,447	N/A	4,765	N/A	9,685	N/A	16,157	N/A	17,065	N/A	8,630	N/A	1,943	N/A	785	N/A		N/A		N/A		N/A		N/A	60,477	N/A
TRI					22,700	40,110	22,700	5,274	15,500	15,500	37,791	37,787	48,776	48,776	30,000	29,980	30,000		37,321		37,321		27,910		310,018	177,427	132,591
COCESNA															28,400		19,193		19,193		19,193		19,193		105,172	0.00	105,172
Total	599,002	498,506	277,000	403,792	566,494	628,410	530,400	458,820	591,381	584,598	684,726	657,266	784,620	746,602	694,670	522,674	800,185	111,179	843,434	0	852,434	0	347,215		7,632,038	4,611,847	3,020,190

Cross Check 1=0

0

Cross Check 2=0

0

0

COST DISTRIBUTION

16-mar-11

		Argentina SAEZ Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	288,481	6,549	17,794	27,999	33,672	33,038	39,797	0	77,399	52,233	52,738	52,738	52,738
PLI PAS	2,156	0	89	140	505	0	199	172	281	769	777	777	777
BL 21.07	0												
BL 39	35,975	0	201	4,655	2,177	6,372	9,945	3,625	5,405	3,594	3,594	3,594	3,594
BL 49	27,290	5	5,115	3,027	1,758	431	3,748	8,279	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	17,600	180	1,339	1,759	1,505	2,185	2,787	2,828	2,141	2,876	2,883	2,883	2,883
AOSC PAS	10,955	393	923	1,120	869	496	1,743	1,548	1,942	1,922	1,942	1,942	1,942
	0												
Budget node	745,001	8,822	33,218	47,960	50,592	56,505	71,948	31,342	101,352	85,359	85,968	85,968	85,968
Established quota	745,001	50,363	30,100	37,800	44,800	66,700	80,000	85,063	86,201	82,500	81,968	81,968	17,538
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	41,541	-3,118	-10,160	-5,792	10,195	8,052	53,721	-15,151	-2,859	-4,000	-4,000	-68,429

		Bolivia SLIP Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2013
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	113,727	3,620	11,449	13,310	11,803	13,591	11,124	0	30,217	18,612	19,661	19,661	19,661
PLI PAS	766	0	57	67	177	0	56	62	97	250	267	267	267
BL 39	15,650	0	201	4,350	2,177	2,436	0	2,603	290	3,594	3,594	3,594	3,594
BL 49	28,819	5	5,115	3,027	367	3,625	4,394	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,914	180	1,339	1,728	1,366	2,111	1,857	2,828	1,630	2,876	2,883	2,883	2,883
AOSC PAS	4,190	217	594	532	304	204	487	559	667	626	667	667	667
	0												
Budget node	437,023	5,717	26,512	32,274	26,299	35,951	31,646	28,302	47,084	49,924	51,105	51,105	51,105
Established quota	437,023	39,563	22,100	28,900	33,600	10,900	43,675	52,460	48,039	43,924	43,105	43,105	27,653
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	33,846	-4,412	-3,374	7,301	-25,051	12,029	24,158	955	-6,000	-8,000	-8,000	-23,452

		Brazil Curitiba SBCT Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	202,930	5,695	18,453	30,613	25,688	19,948	20,369	0	49,907	32,257	36,405	36,405	36,405
PLI PAS	1,437	0	92	153	385	0	102	116	174	416	480	480	480
BL 39	7,185	0	201	2,350	142	50	0	558	290	3,594	3,594	3,594	3,594
BL 49	30,167	5	5,115	9,517	1,372	581	1,291	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,407	180	1,339	2,177	1,263	1,568	1,547	2,828	1,630	2,876	2,883	2,883	2,883
AOSC PAS	7,654	342	957	1,225	663	299	892	1,038	1,199	1,039	1,199	1,199	1,199
Quota SBCT	376,242	8,013	34,231	55,942	40,629	37,496	38,468	26,911	69,207	65,346	69,793	69,793	69,793

		Brazil Manaus SBMN Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	121,617	2,197	11,652	19,585	11,976	13,968	11,020	0	28,680	22,539	20,107	20,107	20,107
PLI PAS	918	0	58	98	180	0	55	67	112	348	310	310	310
BL 39	8,606	0	201	3,771	142	50	0	558	290	3,594	3,594	3,594	3,594
BL 49	21,909	5	5,115	3,281	12,232	431	8	69	205	563	563	563	563
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,452	180	1,339	1,696	2,349	1,553	1,418	2,828	1,571	2,519	2,526	2,526	2,526
AOSC PAS	4,767	132	604	783	309	210	483	603	775	869	775	775	775
Quota SBMN	284,731	4,304	27,043	39,120	38,303	31,261	27,252	19,136	46,850	51,462	48,974	48,974	48,974

		Brazil Recife SBRF Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	47,653	4,353	8,410	3,565	4,825	4,558	5,484	0	9,734	6,724	6,824	6,824	6,824
PLI PAS	326	0	42	18	72	0	27	25	38	104	105	105	105
BL 39	7,185	0	201	2,350	142	50	0	558	290	3,594	3,594	3,594	3,594
BL 49	12,717	5	5,115	3,027	3,294	431	8	69	205	563	563	563	563
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	14,391	180	1,339	1,528	1,455	1,553	1,418	2,828	1,571	2,519	2,526	2,526	2,526
AOSC PAS	2,019	261	436	143	124	68	240	224	263	259	263	263	263
Quota SBRF	195,752	6,589	23,617	20,537	21,028	21,711	21,446	18,715	27,317	34,793	34,974	34,974	34,974
	0												
Budget nodes Brasil	1,286,691	18,617	83,938	113,662	96,929	87,268	85,547	64,398	137,901	148,003	150,143	150,143	150,143
Established quota	1,286,691	123,790	72,900	79,400	111,000	60,800	81,444	118,154	137,644	148,003	150,143	150,143	53,271
Interests+COCESNA	31,258	289	953	1,937	3,029	3,200	1,618	364	5,472	3,599	3,599	3,599	3,599
Difference	0	105,173	-11,038	-34,262	14,071	-26,468	-4,103	53,756	-257	0	0	0	-96,872

		Chile SCEL Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19		108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475
BL 21.01PAS		120,551	3,742	16,819	16,780	23,224	14,637	8,722	0	21,672	14,954	13,670	13,670
PLI PAS		859	0	84	84	348	0	44	42	63	194	174	174
		0											
BL 39		9,525	0	201	3,208	142	50	0	558	1,772	3,594	3,594	3,594
BL 49		25,711	5	5,115	6,036	1,661	-1,063	1,291	7,740	792	4,134	4,134	4,134
BL 50		0											
BL 53.01		3,308	43	315	298	72	543	290	231	891	625	625	625
BL 53.02		63	0	8	34	21	0	0	0	0	0	0	0
AOSC 10%		15,158	180	1,339	1,915	1,292	1,404	1,547	2,828	1,778	2,876	2,883	2,883
AOSC PAS		4,264	225	872	671	599	220	382	375	436	485	436	436
		0											
Budget node		415,083	5,846	32,187	37,955	37,371	29,230	25,713	26,433	39,905	46,069	44,791	44,791
Established quota		415,083	40,013	35,100	36,400	67,000	28,710	29,500	29,500	1,000	45,000	44,791	44,791
Interests+COCESNA		10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200
Difference		0	34,167	2,913	-1,555	29,629	-520	3,787	3,067	-38,905	-1,069	0	-31,514

		Colombia SKED Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19		108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475
BL 21.01PAS		177,530	6,387	15,806	22,960	20,169	23,586	16,870	0	36,235	35,518	33,900	33,900
PLI PAS		1,144	0	79	115	303	0	84	86	120	357	332	332
		0											
BL 39		14,165	0	201	2,350	3,595	50	0	2,603	1,772	3,594	3,594	3,594
BL 49		44,786	5	5,115	3,027	2,461	14,896	4,498	9,858	792	4,134	4,134	4,134
BL 50		0											
BL 53.01		3,308	43	315	298	72	543	290	231	891	625	625	625
BL 53.02		63	0	8	34	21	0	0	0	0	0	0	0
AOSC 10%		17,113	180	1,339	1,528	1,717	3,000	1,867	2,828	1,778	2,876	2,883	2,883
AOSC PAS		6,229	383	819	918	520	354	739	776	829	892	829	829
		0											
Budget node		562,325	8,649	31,116	40,159	38,869	55,870	37,786	31,040	54,919	67,201	65,572	65,572
Established quota		562,325	24,269	0	162,094	0	150,000	0	7,441	0	67,201	65,572	65,572
Interests+COCESNA		10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200
Difference		0	15,620	-31,116	121,935	-38,869	94,130	-37,786	-23,599	-54,919	0	0	-45,396

		Ecuador SEGU Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19		108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475
BL 21.01PAS		90,510	3,987	9,017	8,319	6,769	10,915	8,356	0	25,610	17,536	16,431	16,431
PLI PAS		601	0	45	42	102	0	42	58	79	234	217	217
		0											
BL 39		19,830	0	201	4,065	2,117	3,996	0	2,603	3,254	3,594	3,594	3,594
BL 49		33,183	5	5,115	4,897	6,158	3,050	1,291	7,740	792	4,134	4,134	4,134
BL 50		0											
BL 53.01		3,308	43	315	298	72	543	290	231	891	625	625	625
BL 53.02		63	0	8	34	21	0	0	0	0	0	0	0
AOSC 10%		16,731	180	1,339	1,887	1,939	2,210	1,547	2,828	1,926	2,876	2,883	2,883
AOSC PAS		3,394	239	468	333	175	164	366	523	542	585	542	542
		0											
Budget node		411,992	6,105	23,942	28,802	27,365	34,318	25,330	28,641	45,596	48,790	47,701	47,701
Established quota		411,992	40,913	15,200	25,500	29,100	19,000	40,865	51,589	35,000	35,000	47,701	47,701
Interests+COCESNA		10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200
Difference		0	34,808	-8,742	-3,302	1,735	-15,318	15,535	22,948	-10,596	-13,790	0	-23,278

		France SOCA Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19		108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475
BL 21.01PAS		92,849	2,319	5,674	7,558	10,553	12,337	13,214	0	25,165	16,030	16,118	16,118
PLI PAS		635	0	28	38	158	0	66	57	77	211	212	212
		0											
BL 39		12,429	0	201	4,090	142	50	2,237	1,825	290	3,594	3,594	3,594
BL 49		22,453	5	5,115	3,027	58	431	1,291	7,600	792	4,134	4,134	4,134
BL 50		0											
BL 53.01		3,308	43	315	298	72	543	290	231	891	625	625	625
BL 53.02		63	0	8	34	21	0	0	0	0	0	0	0
AOSC 10%		15,009	180	1,339	1,702	1,131	1,553	1,770	2,828	1,630	2,876	2,883	2,883
AOSC PAS		3,341	139	294	302	272	185	579	513	530	527	530	530
		0											
Budget node		393,473	4,337	20,408	25,978	22,420	28,539	32,885	27,714	41,875	47,203	47,372	47,372
Established quota		393,473	34,763	11,300	20,900	26,400	25,000	45,795	51,371	24,092	42,203	42,372	42,372
Interests+COCESNA		10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200
Difference		0	30,426	-9,108	-5,078	3,980	-3,539	12,910	23,657	-17,783	-5,000	-5,000	-20,465

		Guyana SYGC Node											
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19		108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475
BL 21.01PAS		41,664	2,197	4,965	4,468	2,881	3,011	3,499	0	12,682	7,961	7,367	7,367
PLI PAS		240	0	25	22	43	0	17	18	28	86	77	77
		0											
BL 39		16,740	0	201	3,207	2,177	2,696	0	3,093	1,772	3,594	3,594	3,594
BL 49		29,397	5	5,115	4,630	3,768	698	2,894	7,360	792	4,134	4,134	4,134
BL 50		0											
BL 53.01		3,308	43	315	298	72	543	290	231	891	625	625	625
BL 53.02		63	0	8	34	21	0	0	0	0	0	0	0
AOSC 10%		16,032	180	1,339	1,774	1,706	1,844	1,707	2,828	1,778	2,876	2,883	2,883
AOSC PAS		1,413	132	257	179	74	45	153	164	193	216	193	193
		0											
Budget node		324,571	4,208	19,658	23,541	20,755	22,279	21,999	28,353	30,637	38,698	38,148	38,148
Established quota		324,571	34,313	9,900	19,900	22,900	15,000	35,935	43,009	30,000	30,000	33,148	33,148
Interests+COCESNA		10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200
Difference		0	30,105	-9,758	-3,641	2,145	-7,279	13,936	14,656	-637	-8,698	-5,000	-20,830

Paraguay SGAS Node													
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	83,345	2,481	6,408	11,789	9,616	6,858	7,677	0	24,421	14,093	15,598	15,598	15,598
PLI PAS	566	0	32	59	144	0	38	38	74	181	204	204	204
	0												
BL 39	34,645	0	201	4,065	3,460	6,454	7,570	6,046	3,254	3,594	3,594	3,594	3,594
BL 49	31,272	5	5,115	3,027	1,414	5,898	3,527	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	17,715	180	1,339	1,700	1,599	2,740	2,527	2,828	1,926	2,876	2,883	2,883	2,883
AOSC PAS	2,944	149	332	472	248	103	336	342	510	452	510	510	510
	0												
Budget node	415,597	4,510	21,184	30,372	26,586	36,037	35,405	31,505	44,370	45,162	46,823	46,823	46,823
Established quota	415,597	35,363	12,700	21,900	30,700	25,600	46,160	53,262	47,056	40,162	41,823	41,823	19,050
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	30,853	-8,484	-8,472	4,114	-10,437	10,755	21,757	2,686	-5,000	-5,000	-5,000	-27,773

Perú SPIM Node													
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	245,465	6,346	16,870	22,865	26,278	28,814	33,426	0	62,687	48,180	45,364	45,364	45,364
PLI PAS	1,796	0	84	114	394	0	167	151	224	661	618	618	618
	0												
BL 39	22,197	0	201	2,350	4,426	4,300	4,081	2,955	290	3,594	3,594	3,594	3,594
BL 49	22,213	5	5,115	3,027	58	431	1,291	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,873	180	1,339	1,528	1,560	1,978	1,955	2,828	1,630	2,876	2,883	2,883	2,883
AOSC PAS	9,299	381	875	915	678	432	1,464	1,358	1,544	1,653	1,544	1,544	1,544
	0												
Budget node	655,595	8,606	32,240	40,060	43,500	49,938	56,111	29,542	80,558	80,929	78,037	78,037	78,037
Established quota	655,595	49,613	28,300	36,500	39,700	40,000	71,372	77,820	78,271	77,000	68,037	77,037	11,945
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	41,007	-3,940	-3,560	-3,800	-9,938	15,261	48,278	-2,287	-3,929	-10,000	-1,000	-66,092

Suriname SMPM Node													
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	59,178	2,197	3,951	9,792	5,485	4,684	3,969	0	18,180	10,920	11,222	11,222	11,222
PLI PAS	379	0	20	49	82	0	20	26	49	132	137	137	137
	0												
BL 39	15,854	0	201	4,065	2,177	-232	2,237	558	3,254	3,594	3,594	3,594	3,594
BL 49	23,563	5	5,115	3,027	58	1,781	1,291	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,613	180	1,339	1,700	1,335	1,660	1,770	2,828	1,926	2,876	2,883	2,883	2,883
AOSC PAS	2,022	132	205	392	141	70	174	237	341	330	341	341	341
	0												
Budget node	347,883	4,208	18,588	28,285	19,384	21,946	23,189	25,899	37,936	41,817	42,211	42,211	42,211
Established quota	347,883	34,313	7,400	18,500	28,700	18,300	36,412	44,752	30,000	30,000	37,211	37,211	25,085
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	30,105	-11,188	-9,785	9,316	-3,646	13,223	18,853	-7,936	-11,817	-5,000	-5,000	-17,126

Trinidad & Tobago (Piarco) TTZP Node													
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	89,019	0	0	0	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	46,485	0	0	0	7,255	3,847	5,327	0	18,329	11,727	11,326	11,326	11,326
PLI PAS	357	0	0	0	109	0	27	27	50	144	138	138	138
	0												
BL 39	15,613	0	0	0	2,177	2,696	2,237	3,137	1,772	3,594	3,594	3,594	3,594
BL 49	20,383	0	0	2,815	58	431	3,014	9,140	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	2,652	0	0	0	72	543	290	231	891	625	625	625	625
BL 53.02	21	0	0	0	21	0	0	0	0	0	0	0	0
AOSC 10%	12,858	0	0	282	1,335	1,818	1,943	2,828	1,778	2,876	2,883	2,883	2,883
AOSC PAS	1,428	0	0	0	187	58	233	244	345	361	345	345	345
	0												
Budget node	310,018	0	0	3,097	21,226	22,833	26,509	30,266	36,458	42,667	42,321	42,321	42,321
Established quota	310,018	0	0	22,700	22,700	15,500	37,791	48,776	30,000	30,000	37,321	37,321	27,910
Interests+COCESNA	9,360	0	0	0	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	0	0	19,604	1,474	-7,333	11,282	18,510	-6,458	-12,667	-5,000	-5,000	-14,411

Uruguay SUMU Node													
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	108,057	5,776	11,348	9,175	11,629	11,459	13,579	0	27,394	17,698	17,681	17,681	17,681
PLI PAS	724	0	57	46	174	0	68	58	85	236	236	236	236
	0												
BL 39	27,414	0	201	4,065	5,217	4,970	4,545	2,578	2,244	3,594	3,594	3,594	3,594
BL 49	59,954	5	5,115	3,027	58	36,462	3,001	7,360	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	20,207	180	1,339	1,700	1,639	5,648	2,172	2,828	1,825	2,876	2,883	2,883	2,883
AOSC PAS	4,067	347	588	367	300	172	595	517	590	591	590	590	590
	0												
Budget node	472,121	8,002	26,404	27,640	29,123	72,694	37,688	28,231	46,323	48,960	49,019	49,019	49,019
Established quota	472,121	47,513	16,200	28,800	28,000	77,171	64,003	39,759	30,000	30,000	44,019	44,019	22,637
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	39,511	-10,204	1,160	-1,123	4,477	26,315	11,528	-16,323	-18,960	-5,000	-5,000	-26,381

		Venezuela SVMI Node											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	108,092	1,748	7,751	9,574	11,022	14,507	13,978	14,780	14,325	20,406	20,475	20,475	20,475
BL 21.01PAS	240,225	4,881	10,233	22,485	19,440	26,012	28,830	0	71,900	56,443	59,011	59,011	59,011
PLI PAS	1,688	0	51	112	292	0	144	151	260	678	717	717	717
	0												
BL 39	12,721	0	201	4,922	142	50	0	558	3,254	3,594	3,594	3,594	3,594
BL 49	29,092	5	5,115	5,269	1,758	3,128	1,291	7,600	792	4,134	4,134	4,134	4,134
BL 50	0												
BL 53.01	3,308	43	315	298	72	543	290	231	891	625	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0	0	0
AOSC 10%	15,829	180	1,339	2,010	1,302	1,823	1,547	2,828	1,926	2,876	2,883	2,883	2,883
AOSC PAS	8,721	293	531	899	501	390	1,262	1,356	1,793	1,694	1,793	1,793	1,793
	0												
Budget node	689,016	7,054	25,227	44,958	33,540	45,386	46,802	27,383	93,318	89,251	92,033	92,033	92,033
Established quota	689,016	44,213	15,800	27,200	45,800	38,700	71,774	81,664	88,967	80,000	87,033	87,033	20,832
Interests+COCESNA	10,419	96	318	646	1,010	1,067	539	121	1,824	1,200	1,200	1,200	1,200
Difference	0	37,159	-9,427	-17,758	12,260	-6,686	24,972	54,281	-4,351	-9,251	-5,000	-5,000	-71,201

		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Revision	507,339	6,439	28,795	35,817	37,372	34,601	39,503	55,621	33,357	63,532	56,482	57,910	57,910
AOSC	507,337	6,461	28,840	35,863	30,457	38,117	39,503	55,621	40,945	57,800	57,910	57,910	57,910
Difference	2	-22	-45	-46	6,915	-3,516	0	0	-7,588	5,732	-1,428	0	0
	0												
AOSC PAS	114,205	3,764	8,755	9,250	5,965	3,469	10,126	10,376	12,500	12,500	12,500	12,500	12,500
Check = 0	0												
AOSC 10%=	393,132	2,697	20,085	26,613	24,492	34,648	29,377	45,245	28,445	45,300	45,410	45,410	45,410
Total AOSC	507,337	6,461	28,840	35,863	30,457	38,117	39,503	55,621	40,945	57,800	57,910	57,910	57,910
Sum of Differences	0	504,321	-117,622	41,752	36,441	-7,413	126,169	345,572	-171,962	-99,039	-57,000	-48,000	-553,219

Sum of quotas +

Interests 7,632,038

Total Budget 7,632,037

Check = 0 0

		TOTALS											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Qty Nodes		15	15	15	16	16	16	16	16	16	16	16	16
BL 19	2,693,199	26,217	116,266	143,612	176,355	232,109	223,653	236,481	229,206	326,500	327,600	327,600	327,600
BL 21.01PAS	3,230,540	62,727	168,849	231,264	231,264	231,264	231,264	0	540,212	383,424	383,424	383,424	383,424
PLI PAS	29,592	0	845	1,156	3,469	0	1,156	1,156	1,810	5,000	5,000	5,000	5,000
	0												
BL 39	448,234	0	3,014	53,863	30,552	34,044	32,852	34,413	29,496	57,500	57,500	57,500	57,500
BL 49	639,908	82	76,728	63,688	36,533	71,637	34,127	109,617	11,495	59,000	59,000	59,000	59,000
BL 50	0												
BL 53.01	82,270	643	4,726	4,475	1,150	8,688	4,632	3,703	14,253	10,000	10,000	10,000	10,000
BL 53.02	960	0	118	505	337	0	0	0	0	0	0	0	0
AOSC 10%	393,132	2,697	20,085	26,613	24,492	34,648	29,377	45,245	28,445	45,300	45,410	45,410	45,410
AOSC PAS	114,205	3,764	8,755	9,250	5,965	3,469	10,126	10,376	12,500	12,500	12,500	12,500	12,500
AOSC TOTAL	507,337	6,461	28,840	35,863	30,457	38,117	39,503	55,621	40,945	57,800	57,910	57,910	57,910
Budget	7,466,389	94,681	394,622	524,742	493,959	598,794	558,557	439,048	838,232	880,031	881,241	881,241	881,241
	0												
Interests+ COCESNA	165,649	1,447	4,765	9,685	16,157	17,065	8,630	1,943	29,185	19,193	19,193	19,193	19,193
TOTAL in	7,632,038	96,128	399,387	534,427	510,116	615,859	567,187	440,991	867,417	899,224	900,434	900,434	900,434

TOTAL	7,632,040	96,130	399,386	534,426	510,117	615,859	567,187	440,991	867,417	899,224	900,434	900,434	900,434
Check =0	2	22	45	45	-6,909	3,516	0	0	7,588	-5,732	1,428	0	0
Check =0	-2	-3	1	1	-2	0	0	0	0	0	0	0	0

Agenda Item 5: Project Annual Report

5.1 Under this Agenda Item, the Coordination Committee proceeded to the annual evaluation of the project using for the first time a set of forms prepared by the Secretariat consisting in four parts:

- a) Situation of the project and performance indicators and results.
- b) Monitoring and control of the project.
- c) Survey on performance indicators and results.
- d) Calendar of delivery dates.

5.2 In the first part (**Appendix A**) are exposed the results obtained from the development of the activities programme approved by the Project Coordination Committee for the period under analysis related to the immediate objectives, results and activities established in the project document. In this sense, the activities under Objective N° 2 were subject to analysis, given that the other two objectives had been completed in the early years of project operations.

5.3 The second part (**Appendix B**) shows the monitoring and financial control of the project based in the approved budget for the implementation of the activities programme of the referred year. The table shows the apportionment of common expenses to all the activities performed, such as project staff costs and general expenses relating the amounts referred to training, subcontracts and equipment with the activities concerned.

5.4 Given that it was the first time using this new procedure for the evaluation of management results, it was necessary to make clear to delegates the way that the Secretariat was processing the information, taking notes of the concerns expressed by some delegates about the inclusion of global details of the expenses of each component before submitting its breakdown by activity, for clarity of the reader.

5.5 The third part of the questionnaire (**Appendix C**) includes a survey on performance indicators and results to be completed by the States participating in the project with their comments and qualifications, including:

- I. Evaluation of the current project
- II. Evaluation of the compliance of objectives
- III. Evaluation of project implementation and service provision by the ICAO, and
- IV. Lessons learned.

5.6 The survey had been completed before the meeting by Argentina, Brazil and Uruguay and consolidation of the results was submitted to the consideration of the Coordination Committee, asking delegates of the States that still had not submitted it, to respond the questionnaire and forward it to the Secretariat as possible before March 31 to include all the answers in the final report of the meeting.

5.7 The last part (**Appendix D**) shows the calendar of delivery dates of the first three parts of the evaluation.

APPENDIX A

**1. PROJECT STATUS AS AT 31 DECEMBER 2010
AND INDICATORS OF MANAGEMENT AND OUTPUTS**



PROJECT NUMBER: RLA/03/901
PROJECT TITLE: System for the Management of the REDDIG and Administration of the Satellite Segment

IMMEDIATE OBJECTIVE 1	<i>Elaborate a proposal for the establishment of a multinational mechanism for the definitive administration of the network, considering the studies on this subject to be carried out by GREPECAS.</i>		
OUTPUT 1.1	<i>Analysis of the possible multinational mechanisms to provide air navigation services in order to determine an arrangement for the administration of the network.</i>		
CURRENT STATUS	Percentage of advance %		
PLANNED WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	(see the proposed work programme at beginning of year)
CURRENT WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	Deviation: XX months CAUSE:
OUTPUT 1.1	DELIVERABLES / INDICATORS		Remarks
	2010		
1.1.1 Compile information from the existing multinational mechanisms for the provision of air navigation services, such as: a) COCESNA; b) Eurocontrol; c) Iceland Agreement; d) Others.			Completed.
1.1.2 Prepare a comparative chart on the advantages and disadvantages of the possible multinational mechanisms in order to determine an arrangement on this matter for the administration of the network .			Completed.
1.1.3 Analyze the best alternatives for a definitive arrangement that allows the establishment of a multinational mechanism for the administration of the network.			Completed.
OUTPUT 1.2	<i>Proposal for the establishment of a multinational mechanism for the administration of the network elaborated.</i>		
CURRENT STATUS	Percentage of advance %		
PLANNED WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	(see the proposed work programme at beginning of year)
CURRENT WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	Deviation: XX months CAUSE:

OUTPUT 1.2	DELIVERABLES / INDICATORS			Remarks
	2010			
1.2.1 Considering the CAR/SAM FASID guidance material, and the study of the previous output, prepare a multinational mechanism project for the administration of the network.				Completed.
OUTPUT 1.3	Proposal on the definitive multinational mechanism for the administration of the network, approved.			
CURRENT STATUS	Percentage of advance %			
PLANNED WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	(see the proposed work programme at beginning of year)	
CURRENT WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	Deviation: XX months	CAUSE:
OUTPUT 1.3	DELIVERABLES / INDICATORS			Remarks
	2010			
1.3.1 Project of proposal on the multinational mechanism presented to the following interested parties requesting their comments:				Completed.
a) SAM States;				
b) GREPECAS; and				
c) Meeting of Civil Aviation Authorities in the SAM Region.				
1.3.2 Evaluate the comments received and consider them in the preparation of the final proposal.				Completed.
1.3.3 Circulate the final proposal to the States requesting its approval				Completed.
1.3.4 Approval of the proposal on a multinational mechanism for the administration of the network				Completed.
OUTPUT 1.4	Arrangements to activate the multinational mechanism for the administration of the network, prepared.			
CURRENT STATUS	Percentage of advance %			
PLANNED WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	(see the proposed work programme at beginning of year)	
CURRENT WORK PLAN	Starting date: XX/XX/XXXX	Delivery date: XX/XX/XXXX	Deviation: XX months	CAUSE:

OUTPUT 1.4	DELIVERABLES / INDICATORS				Remarks
	2010				
1.4.1 Based in the result of 1.3, coordinate with the States the necessary arrangements for the implementation of the approved mechanism.					Completed.
1.4.2 Based in activity 1.4.1 prepare a working programme and determine the date of activation of the multinational mechanism.					Completed.
IMMEDIATE OBJECTIVE 2	Administration of the network under the conditions established by the Third Meeting of the Coordination Committee (RCC/3)				
OUTPUT 2.1	Administration of the network under the direct management of the project.				
CURRENT STATUS	Percentage of advance %				
PLANNED WORK PLAN	Starting date: 03/15/2010 Delivery date: 12/31/2010 (see the proposed work programme at beginning of year)				
CURRENT WORK PLAN	Starting date: 03/15/2010 Delivery date: 12/31/2010 Deviation: 0 months CAUSE:				
OUTPUT 2.1	DELIVERABLES / INDICATORS				Remarks
	2010				
2.1.1 Management the network during the transition period to the definitive multinational mechanism providing the following services to keep the network operating:	99.98% of network availability since the last Coordination Meeting up to date.				Ongoing.
a) Assist the States and provide training for the correct operation of the network nodes.	38 participants of 12 States of the region and of COCESNA trained in the Technical Operative Meeting on Communications Networks and Data Transmission carried out in Lima, Peru, from 11 to 15 October 2010. Technicians of 86% of REDDIG State members were trained making use of 15 fellowships.				Completed.
b) Supervise and control in an efficient manner the network operation, providing the appropriate assistance to the nodes for the identification and solution of operation problems that might arise.	26 logistics operations during the year, caused mainly by defects in the nodes. Continuous process that is performed with a highly efficient response to all States that require services. WP/03 shows the degree of attention in the nodes to resolve faults.				Recurrent.
c) Manage the network configuration keeping the system database updated with the corresponding information of the nodes bandwidth.	The data base is continuously updated.				Continuous.

d) Prepare monthly reports on the activities of the network administration and the operating status of the system and circulate them to the States.	Descontinued .	Activity performed in the first years of the project.
e) Follow up the aspects of the guarantee contracted for the network.	The system is no longer under warranty.	Completed.
f) Verify periodically the network maintenance programmes improving them as necessary, and advising in the planning and execution of the same.	Network maintenance programs are constantly updated. They are submitted in the REDDIG technical-operational meetings.	Recurrent.
g) Propose the corresponding procedures to duly coordinate the operation of the NCC's (Manaus/Ezeiza).	Procedures for the coordinations transference between Manaus NCC and Ezeiza NCC have been established.	Completed.
h) Based on agreements reached in RCC/3 about the spare parts management policy, propose a procedure regarding the use of the network spare part, to guarantee its support and continuous supply.	Procedure established for the administration of network spare parts.	Completed.
i) Approve procedures proposed in g) and h).	Procedures approved.	Completed.
2.1.2 Coordinate with the States other administrative aspects established for the operation of the network, as follows:		Completed.
a) Supplies provided by the States.	States as owners of REDDIG's nodes provide the supplies required for its operation and the technical staff for maintenance, and those with the NCC provide the staff plus all requirements for its operation.	In process.
b) Quantity and quality of the human resources to be provided by the States for the operation and maintenance of the network.	Each State that has a REDDIG node provides at least two experts with good technical skills to perform maintenance. The state conducting (NCC) management provides a minimum of five experts with a good technical background.	In process.

c) Facilities, access to site, transportation/ mobilization, personnel assistance, telecommunication means, etc.	All the REDDIG nodes have the benefits aforesaid.	Completed.
OUTPUT 2.2	<i>REDDIG budget approved.</i>	
CURRENT STATUS	Percentage of advance %	
PLANNED WORK PLAN	Starting date: 02/01/2010 Delivery date: 03/10/2010 (see the proposed work programme at beginning of year)	
CURRENT WORK PLAN	Starting date: 02/01/2010 Delivery date: 03/10/2010 Deviation: 0 months CAUSE:	
OUTPUT 2.2	DELIVERABLES / INDICATORS	Remarks
	2010	
2.2.1 Prepare and present annually to ICAO Lima Office a budget on the network administration for its approval.	Is submitted in Working Paper N° 5 of each Coordination Committee Meeting.	Recurrent.
2.2.2 Prepare an annual activity report of the network administration and the programme of activities for the next year including the budgetary provisions.	Is submitted in Working Paper N° 4 of each Coordination Committee Meeting.	Recurrent.
2.2.3 Prepare the annual budget of the network.	Is submitted in Working Paper N° 5 of each Coordination Committee Meeting.	Recurrent.
2.2.4 Convene the meeting of the REDDIG Coordination and Technical Committee in April of each year.	The technical operative meetings are carried out when necessary. The last one was held in 2009.	Recurrent.
2.2.5 Approve the annual budget of the network.	Budget approved by each meeting of the Coordination Committee.	Recurrent.
2.2.6 Verify and approve the annual activities report and the activities programme for next year presented by the network administrator.	Annual report approved by each meeting of the Coordination Committee.	Recurrent.
2.2.7 Verify and approve the expenses and accounts of the network administration.	Expenditures and accounts are approved by each meeting of the Coordination Committee.	Recurrent.
OUTPUT 2.3	<i>Space Satellite Segment Leased</i>	
CURRENT STATUS	Percentage of advance %	
PLANNED WORK PLAN	Starting date: 01/04/2010 Delivery date: 12/31/2010 (see the proposed work programme at beginning of year)	
CURRENT WORK PLAN	Starting date: 01/04/2010 Delivery date: 12/31/2010 Deviation: 0 months CAUSE:	

OUTPUT 2.3	DELIVERABLES / INDICATORS		Remarks
	2010		
2.3.1 Based on Conclusion RCC 3/7 of the Third Meeting of the Coordination Committee, establish the most convenient arrangement for the leasing of the Panamsat satellite segment.	Agreement established.		Completed.
2.3.2 Approve the arrangement proposed by Panamsat	Arrangement approved.		Completed.
2.3.3 Collect the funds for the lease of the satellite segment space and sign the contract.	Funds collected regularly and satellite segment leased in accordance with the established arrangement.		Recurrent.
IMMEDIATE OBJECTIVE 3	In accordance with the CAR/SAM FASID requirements and in coordination with project RLA/98/003, plan the regional development of CNS/ATM applications and implement them.		
OUTPUT 3.1	Identified CNS/ATM applications.		
CURRENT STATUS	Percentage of advance %		
PLANNED WORK PLAN	Starting date: XX/XX/XXXX Delivery date: XX/XX/XXXX (see the proposed work programme at beginning of year)		
CURRENT WORK PLAN	Starting date: XX/XX/XXXX Delivery date: XX/XX/XXXX Deviation: XX months CAUSE:		
OUTPUT 3.1	DELIVERABLES / INDICATORS		Remarks
	2010		
3.1.1 Investigate the available CNS/ATM applications successfully implemented for the aeronautical fixed service.			Completed.
3.1.2 From the technical point of view, investigate their application in the REDDIG platform and select the corresponding applications.			Completed.
OUTPUT 3.2	Implementation plan of the CNS/ATM applications approved.		
CURRENT STATUS	Percentage of advance %		
PLANNED WORK PLAN	Starting date: 03/15/2010 Delivery date: 11/30/2010 (see the proposed work programme at beginning of year)		
CURRENT WORK PLAN	Starting date: 03/15/2010 Delivery date: 11/30/2010 (see the proposed work programme at beginning of year)		

OUTPUT 3.2	DELIVERABLES / INDICATORS	Remarks
	2010	
3.2.1 Coordinate with the States and with GREPECAS the technical aspects required for the implementation of the selected CNS/ATM applications.		Completed.
3.2.2 In coordination with RLA/98/003 Project activities, prepare an implementation plan for the CNS/ATM applications including among other things the following:		Completed.
a) Interoperability with the conventional applications; b) General technical specifications for the equipment and programming (hardware and software); c) Requirements of the system and functionalities; d) Costs; and e) Coordination arrangements and responsible parties.		
3.2.3 Define deliverables / products.		Completed.
OUTPUT 3.3	<i>CNS/ATM applications for the fixed service implemented in the REDDIG platform.</i>	
CURRENT STATUS	Percentage of advance %	
PLANNED WORK PLAN	Starting date: XX/XX/XXXX Delivery date: XX/XX/XXXX (see the proposed work programme at beginning of year)	
CURRENT WORK PLAN	Starting date: XX/XX/XXXX Delivery date: XX/XX/XXXX Deviation: XX months CAUSE:	

OUTPUT 3.3	DELIVERABLES / INDICATORS	Remarks
	2010	
3.3.1 Based on the approved plan in 3.2.4 execute the following:		Completed.
a) Propose an amendment to the project budget in order to develop the action plan for the implementation of the applications.		Completed.
b) Approve the mentioned amendment.		Completed.
c) Develop an action plan for the implementation of CNS/ATM applications in the network platform.		Completed.
d) Approve the action plan.		Completed.

2. PROJECT MONITORING AND CONTROL

Work plan for year 2010

Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

Form TCB FUEP - 02

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced
	A	B	C		(1)	(2)	(2)/(1)	MM/DD/YY	MM/DD/YY		j a n	f e b	m a r	a p r	m a y	j u n	j u l	a u g	s e p	o c t	n o v	d e c	
Output 1.3				Proposal on the definitive multinational mechanism for the administration of the network, approved.																			
				1.3.1. Project of proposal on the multinational mechanism presented to the following interested parties requesting their comments:																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Training																			
				-Subcontracts																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				1.3.2. Evaluate the comments received and consider them in the preparation of the final proposal. IAC, NAdm., RO																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Training																			
				-Subcontracts																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				1.3.3. Circulate the final proposal to the States requesting its approval																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Training																			
				-Subcontracts																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				TOTAL IMMEDIATE OBJECTIVE 1	0	0																	

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced
	A	B	C								j a n	f e b	m a r	a p r	m a y	j u n	j u l	a u g	s e p	o c t	n o v	d e c	
Immediate objective 2				Administration of the network under the conditions established by the Third Meeting of the Coordination Committee (RCC/3)																			
Output 2.1				REDDIG operation under the direct management of the project for a period of two years.				3/15/10	12/31/10														
				2.1.1. Management the network during the transition period to the definitive multinational mechanism providing the following services to keep the network operating:																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	938	56%																
				-Missions	4,167	2,352	56%																
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	26,327	19,922	76%																
				a) Assist the States and provide training for the correct operation of the network nodes																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	938	56%																
				-Missions	4,167	2,352	56%																
				-Subcontracts																			
				-Training	56,500	25,346	45%																
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	82,827	45,268	55%																
				b) Supervise and control in an efficient manner the network operation, providing the appropriate assistance to the nodes for the identification and solution of operation problems that might arise.																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	938	56%																
				-Missions	4,167	2,352	56%																
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	26,327	19,922	76%																
				c) Manage the network configuration keeping the system database updated with the corresponding information of the nodes bandwidth.																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	938	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	22,160	17,570	79%																
				d) Prepare monthly reports on the activities of the network administration and the operating status of the system and circulate them to the States.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total		0																	
				e) Follow up the aspects of the guarantee contracted for the network.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	

2. PROJECT MONITORING AND CONTROL

Work plan for year 2010

Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

[illegible]

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced
	A	B	C								j	f	m	a	m	j	j	a	s	o	n	d	
					(1)	(2)	(2)/(1)	MM/DD/YY	MM/DD/YY		a	e	a	a	a	u	u	u	e	c	o	v	e
				c) Facilities, access to site, transportation/ mobilization, personnel assistance, telecommunication means, etc.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
Output 2.2				REDDIG Budget approved.																			
				2.2.1 Prepare and present annually to ICAO Lima Office a budget on the network administration for its approval.																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions	4,167	2,352	56%																
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	26,327	19,921	76%																
				2.2.2 Prepare an annual activity report of the network administration and the programme of activities for the next year including the budgetary previsions.																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,229	72%																
				Sub-total	22,160	17,568	79%																
				2.2.3 Prepare the annual budget of the network																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,229	72%																
				Sub-total	22,160	17,568	79%																
				2.2.4 Convene the meeting of the REDDIG Coordination and Technical Committee in April of each year																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,229	72%																
				Sub-total	22,160	17,568	79%																
				2.2.5 Approve the annual budget of the network																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions	4,167	2,352	56%																
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	26,327	19,921	76%																
				2.2.6 Verify and approve the annual activities report and the activities programme for next year presented by the network administrator																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	22,160	17,569	79%																

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced
	A	B	C								j a n	f e b	m a r	a p r	m a y	j u n	j u l	a u g	s e p	o c t	n o v	d e c	
				2.2.7 Verify and approve the expenses and accounts of the network administration.																			
				-Experts	16,000	13,402	84%																
				-Support staff	1,667	937	56%																
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230	72%																
				Sub-total	22,160	17,569	79%																
Output 2.3				Space Satellite Segment Leased																			
				2.3.1 Based on Conclusion RCC 3/7 of the Third Meeting of the Coordination Committee, establish the most convenient arrangement for the leasing of the Panamsat satellite segment.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total		0																	
				2.3.2 Approve the arrangement proposed by Panamsat																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total		0																	
				2.3.3 Collect the funds for the lease of the satellite segment space and sign the contract.																			
				-Experts	16,000	13,402																	
				-Support staff	1,667	938																	
				-Missions																			
				-Subcontracts	542,599	540,212	100%																
				-Training																			
				-Equipment																			
				-Sundry	4,493	3,230																	
				Sub-total	564,759	557,782																	
				TOTAL IMMEDIATE OBJECTIVE 2	1,049,007	855,265	82%																

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced	
	A	B	C								j a n	f e b	m a r	a p r	m a y	j u n	j u l	a u g	s e p	o c t	n o v	d e c		
					(1)	(2)	(2)/(1)	MM/DD/YY	MM/DD/YY															
Immediate objective 3				In accordance with the CAR/SAM FASID requirements and in coordination with project RLA/98/003, plan the regional development of CNS/ATM applications and implement them.																				
Output 3.1				Identified CNS/ATM applications.																				
				3.1.1 Investigate the available CNS/ATM applications successfully implemented for the aeronautical fixed service.																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total	0	0																		
				3.1.2 From the technical point of view, investigate their application in the REDDIG platform and select the corresponding applications.																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total	0	0																		
Output 3.2				Implementation plan of the CNS/ATM applications, approved.																				
				3.2.1 Coordinate with the States and with GREPECAS the technical aspects required for the implementation of the selected CNS/ATM applications.																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total		0																		
				3.2.2 In coordination with RLA/98/003 Project activities, prepare an implementation plan for the CNS/ATM applications including among other thins the following:																				
				a) Interoperability with the conventional applications;																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total	0	0																		
				b) General technical specifications for the equipment and programming (hardware and software);																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total	0	0																		
				c) Requirements of the system and functionalities;																				
				-Experts																				
				-Support staff																				
				-Missions																				
				-Subcontracts																				
				-Training																				
				-Equipment																				
				-Sundry																				
				Sub-total	0	0																		

APPENDIX B

2. PROJECT MONITORING AND CONTROL
Work plan for year 2010

Project No.: RLA/03/901
Project title: System for the Management of the REDDIG and Administration of the Satellite Segment

	ICAO strategic objective			Description of activities and corresponding inputs	Amount budgeted for the year US\$	Amount disbursed in the year US\$	% of compliance	Starting date scheduled	Termination date scheduled	% of compliance to date	Months												Comments and problems faced
	A	B	C								j	f	m	a	m	j	j	a	s	o	n	d	
					(1)	(2)	(2)/(1)	MM/DD/YY	MM/DD/YY		a	e	a	p	a	u	u	u	e	c	o	e	
				d) Costs; and							n	b	r	r	y	n	l	g	p	t	v	c	
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				e) Coordination arrangements and responsible parties.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				3.2.3 Approve plan developed in 3.2.2.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
Output 3.3				CNS/ATM Applications for the fixed service implemented in the REDDIG platform																			
				3.3.1 Based on the approved plan in 3.2.4 execute the following:																			
				a) Propose an amendment to the project budget in order to develop the action plan for the implementation of the applications.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				b) Approve the mentioned amendment.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				c) Develop an action plan for the implementation of CNS/ATM applications in the network platform.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total		0																	
				d) Approve the action plan.																			
				-Experts																			
				-Support staff																			
				-Missions																			
				-Subcontracts																			
				-Training																			
				-Equipment																			
				-Sundry																			
				Sub-total	0	0																	
				TOTAL IMMEDIATE OBJECTIVE 3	0	0																	
				TOTAL IMMEDIATE OBJECTIVES	1,049,007	855,265	82%																

APPENDIX C**Project N°:** RLA/036901**Title:** System for the Management of the REDDIG and Administration of the Satellite Segment**APPENDIX C****3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS****Section I:** Evaluation of current project**Section II:** Assessment of compliance with objectives**Section III:** Evaluation of implementation and delivery of services by ICAO**Sección IV:** Lessons learned

RATING SCALE	
5.0	Exceptional results beyond project requirements
4.5	Exceeds requirements
4.0	Project objectives were achieved in all cases
3.5	Most of the project's objectives were achieved
3.0	Some quality results were achieved and implemented
2.5	Some quality results were achieved but are not implementable
2.0	Some results were achieved with little impact and quality
1.5	Below the expected results
1.0	Well below the expected results

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

I. EVALUATION OF CURRENT PROJECT

1.- Project objectives	
Do you think the project's objectives are set correctly according to the development priorities of your State in relation to the National Air Navigation Plan to serve the reality of civil aviation?	Evaluation
ARG	4
BRA	4.5
COL	4
PAR	4.5
URU	4
Average:	4.20
2.- Support at regional and global level	
Do you think that the project responds and supports your administration with the commitments of the Regional and Global Air Navigation Plans?	Evaluation
ARG	4.5
BRA	4.5
COL	4.5
PAR	4.5
URU	5
Average:	4.60
3.- Comments of the State(s)	
Do you have any comments on the direction of the project?	Evaluation
ARG	4
BRA: The direction of the project has been dynamics and efficient.	4.5
COL	4.5
PAR	4.5
URU	4
Average:	4.30
4.- Strategy and Vision	
Do you consider that the project meets your institution's strategy and vision that has at long term?	Evaluation
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

I. EVALUATION OF CURRENT PROJECT

Average:	4.20
5.- Project quality	Evaluation
What opinion deserves you the content of this project to achieve the expected objectives?	
ARG	4
BRA	5
COL	4.5
PAR	4.5
URU	4
Promedio:	4.40
6- Project resources	Evaluation
Do you consider that the financial, physical and human resources agreed to achieve the objectives established in the project document are appropriate?	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	3
Average:	4.00
7.- Project participants	Evaluation
Do you consider that all parties that should be involved in the project are present? If it is not so, who should be involved	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.20
8.- Project effectiveness	Evaluation
Is the project effective in costs compared to similar programs or projects?	
ARG	4.5
BRA	4.5
COL	4.5
PAR	4
URU	4

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS**I. EVALUATION OF CURRENT PROJECT**

Average:	4.30
9.- Modification of project objectives	Evaluation
What modifications to the objectives and scope of the project would you propose	
URU: Only add that it is necessary to maintain and periodically renew the maintenance staff of each Node, reason for which it is essential to retake courses for new technical staff.	
10.- Other information	Evaluation
Please provide any other information that may support or clarify your perception of the current project scope	
Comments	

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

II. ASSESSMENT OF OBJECTIVES COMPLIANCE

1.- Project objectives	Evaluation
In terms of project management by ICAO, do you think that project objectives are being met?	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.20
2.- Project schedule	Evaluation
Do you think that project objectives are being met or have been met promptly in accordance with your expectations?	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.20
3.- Use of resources	Evaluation
Do you consider that in meeting the objectives are being used, or have been used, resources efficiently?	
ARG	4.5
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.30
4.- Project cost	Evaluation
Do you consider that the costs relating to compliance with the objectives are or have been appropriate?	
ARG	4
BRA	4.5
COL	4
URU	4
Average:	4.13
5.- Major achievements	Evaluation
What are the main achievements of the project in relation to the expected results?	
ARG	4
BRA	4.5
COL	4.5
PAR	4.5
URU	5
Average:	4.50
6.- Major problems and their resolution	Evaluation
What are the main problems affecting the achievement of the expected results and how should them be resolved?	

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

II. ASSESSMENT OF OBJECTIVES COMPLIANCE

ARG	4
COL	4.5
PAR	4
URU	4
Average:	4.13
7.- Other comments Please include other comments related to the compliance of project objectives.	Evaluation
URU: The delays in the acquisition of spare parts would be a subject to be considered	
8.- Risks What new events that could happen, would probably affect the achievement of project outputs? What do you recommend to respond to these events?	Evaluation
Comments	
9.- Other information Please provide any other information that may support or clarify your assessment regarding compliance with the objectives of the project.	Evaluation

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

1.- Decision making	Evaluation
Do you think that the decision-making process within the project is appropriate?	
ARG	4
BRA	4.5
COL	4.5
PAR	4.5
URU	3
Average:	4.10
2.- Products quality	Evaluation
Do you think that the quality of products elaborated is appropriate?	
ARG	4.5
BRA	4.5
COL	4
PAR	4.5
URU	4
Average:	4.30
3.- Orientation	Evaluation
Do you think that there is compliance with guidance towards achieving the project outputs?	
ARG	4
BRA	4.5
COL	4.5
PAR	4.5
URU	4
Average:	4.30
4.- Organization and prioritization	Evaluation
Do you think the organization and prioritization within the project is appropriate?	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.20
5.- Change management	Evaluation
Do you think that the management of change and degree of flexibility in managing the project are appropriate?	
ARG	4
BRA	4.5
COL	4
PAR	4
URU	5
Average:	4.30

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

6.- Service to the State	Evaluation
Do you think that the service provided to your State is appropriate?	
ARG	4
BRA	4.5
COL	4
PAR	5
URU	4
Average:	4.30
7.- Communication	Evaluation
Do you think that the level of communication within and outside the project is adequate?	
ARG	4
BRA	4
COL	4
PAR	4
URU	4
Average:	4.00
8.- Conflicts	Evaluation
Do you believe that conflict management is adequate?	
ARG	4
BRA	4
COL	4.5
PAR	5
URU	5
Average:	4.50
9.- Use of resources	Evaluation
Do you think that project resources are being used efficiently to produce the expected results?	
ARG	4
BRA	4.5
PAR	4.5
URU	4
Average:	4.25
10.- Relevance of mechanisms	Evaluation
Do you think that management mechanisms of the project are relevant?	
ARG	4
BRA	4.5
COL	4.5
PAR	4
URU	4
Average:	4.20

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

11.- Opportunity to work plans On the basis of its work plan, how would you rate the degree of opportunity of the project as regards the achievement of products, outputs and delivery of inputs?	Evaluation
ARG	4
BRA	4
COL	4.5
PAR	4
URU	3
Average:	3.90
12.- Orientation Do you consider that the activities and products developed through the project are in line with ICAO directives, regional offices and air navigation plans?	Evaluation
ARG	4
BRA	4
COL	4.5
PAR	4
URU	4
Average:	4.10
13.- Other information Please provide any other information that may support or clarify your assessment on products and services provided through the project.	Evaluation

3. SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

IV. LESSONS LEARNED

1.- Positive lessons learned from the project.
Provide a brief description of the positive lessons learned from project implementation.
ARG: Better coordination for the solution of technical problems. More flexibility and reducing time for States to implement new services.
BRA: The project has provided a technical interaction between the links and exchange of experiences very effective, contributing to the mutual development of all member States.
URU: Cooperation of the States has been essential.
PAR: Cooperation among the states for the implementation of new technologies and the coordination for the solution of technical problems almost immediately.
2.- Opportunities for improvement.
Provide a brief description of the improvement opportunities identified during project implementation.
ARG: At present an improvement on communications platform is proposed in order to make it more flexible for the implementation of future applications.
URU: The renewal of equipments and the change of administration will result, without doubt, in very important moments for the future of REDDIG.
PAR: The renewal of equipment or its total change will be important for the future of the project.
3.- Strategy to implement the improvement opportunities identified.
Provide a brief description of the strategy that you would propose to implement the improvement opportunities identified.
ARG: The strategy currently used and ratified in the prior RCC meetings is correct.
URU: The experience gained should be applied for the replacement of equipment, allowing greater technological independence as possible and keep the concept of a centralized administration.
PAR: The strategy used should be maintained given that it was improved with the experience gained during the project.

Agenda Item 6: Other matters***Current situation of the Colombian VSAT network***

6.1 The Meeting was informed that the VSAT stations of the Colombian network HUGHES, are in a gradual process of deactivation, as well as the 6.7 MHz bandwidth space segment. This February a reduction of more than 50% occurred, currently operating the network over the INTELSAT 805-304.5 satellite, with a 3.2 MHz bandwidth, and the same technology (SCPC/DAMA).

6.2 With regard to the Colombian VSAT stations installed outside the Colombian territory, the Meeting was informed that same will be kept and used as back-up to the MEVA II / REDDIG interconnection.

Primary use of the ATS speech circuits at Colombian and Venezuelan ATS units through MEVA II / REDDIG interconnection

6.3 The Meeting urged that the aeronautical administrations of Colombia and Venezuela evaluate the ATS speech circuits availability through MEVA II / REDDIG interconnection and that they ensure that the ATS speech circuits in operation at these ATS units were those corresponding to the MEVA II / REDDIG interconnection, in view that the ATS speech circuits are also being kept operational.

6.4 The delegate of Venezuela informed that, even though all the speech circuits at its ATS units connected with Aruba, Curacao and San Juan were operating through MEVA II / REDDIG interconnection, it was required that the Curacao and San Juan ACCs enter the communication coming from the Maiquetia ACC to the corresponding sectors at their ACCs, and that they include the Maiquetia numbers in the Curacao and San Juan ACC dialling plan. In this respect, the aeronautical administration of Venezuela was urged to make the necessary coordination with Curacao and United States with the aim of completing the mentioned activities as soon as possible, since these circuits were passing over to SES. In addition, Venezuela was urged to complete as soon as possible the circuit segment between the Josefa Camejo tower and the Maiquetia REDDIG node, in order to complete the circuit with the Aruba APP, as this circuit was also passing over to SES.

6.5 In this respect, the following conclusion was formulated:

Conclusion RCC 14/4 - Use of speech circuits at Colombian and Venezuela ATS units through the MEVA II / REDDIG interconnection

That the aeronautical administrations of Colombia and Venezuela evaluate the ATS speech circuits availability between the ATS units in Colombia with the ATS units of Curacao, Jamaica and Panama, as well as the speech communications between the ATS units in Venezuela with Aruba, Curacao and San Juan, ensuring that the main communications means be through the MEVA II / REDDIG interconnection, in view that operators at these units also have old ATS speech circuits available.

Fiteenth meeting of the Coordination Committee (RCC/15)

6.6 The Meeting deemed it convenient that the next meeting of the REDDIG Coordination Committee (RCC/15), be kept as a three-day event with the aim of guaranteeing the time necessary for the dealing of the agenda.