



REDDIG RCC/13

INTERNATIONAL CIVIL AVIATION ORGANIZATION

**THIRTEENTH MEETING OF REDDIG
COORDINATION
COMMITTEE**

(RCC/13)

FINAL REPORT

(Lima, Peru, 9-10 March 2010)



REDDIG RCC/13

INTERNATIONAL CIVIL AVIATION ORGANIZATION

South American Regional Office

**RLA/03/901 REGIONAL PROJECT
REDDIG MANAGEMENT SYSTEM AND
SATELLITE SEGMENT ADMINISTRATION**

Thirteenth Meeting of the Coordination Committee (RCC/13)

FINAL REPORT

(Lima, Peru, 9 – 10 March 2010)

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area of its authorities, or concerning the delimitation of its frontiers or boundaries.

INDEX

i -	Index	i-1
ii -	History of the Meeting	ii
	Place and duration of the Meeting	ii-1
	Opening.....	ii-2
	Working Languages	ii-3
	Participants and Organization	ii-4
	List of Conclusions	ii-5
iii -	List of Participants	iii-1
Report on Agenda Item 1:		
	Review of the report of the Twelfth Meeting of the REDDIG Coordination Committee	1-1
Report on Agenda Item 2:		
	Report of the activities carried out up to date since the last meeting of the REDDIG Coordination Committee	2-1
Report on Agenda Item 3:		
	Work plan for 2010.....	3-1
Report on Agenda Item 4:		
	Financial situation of project RLA/03/901 and approval of the budget for year 2010.....	4-1
Report on Agenda Item 5:		
	Annual project report.....	5-1
Report on Agenda Item 6:		
	Other matters.....	6-1

HISTORY OF THE MEETING

ii-1. PLACE AND DURATION OF THE MEETING

The Thirteenth 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 9 to 10 March 2010.

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 6 member States (Argentina, Brazil, Chile, Paraguay, Peru and Uruguay), making a total of 17 participants, including ICAO officers. 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.

ii-5. LIST OF CONCLUSIONS

No.	Title	Page
RCC 13/1	Deposit of cost-sharing contributions to Project RLA/03/901	4-2
RCC 13/2	Budget review of Project RLA/03/901	4-2

LIST OF PARTICIPANTS / LISTA DE PARTICIPANTES

STATE / ESTADO INTERNATIONAL ORGANIZATION / ORGANIZACIÓN INTERNACIONAL NAME / NOMBRE POST / PUESTO	ADDRESS / DIRECCIÓN TELEPHONE / TELÉFONO FAX E-MAIL
ARGENTINA	
Gustavo Adolfo Chiri Jefe Proyecto REDDIG Jefe Depto. Planes y Programas Dpto. Comunicaciones Dirección CNS	Administración Nacional de Aviación Civil (ANAC)
Alfredo Fabián Iacono Jefe División Redes de Comunicaciones Dirección CNS	Administración Nacional de Aviación Civil (ANAC)
BRASIL / BRAZIL	
Athayde Licério Vieira Frauche Coordinador de la REDDIG	Departamento de Controle do Espaço Aéreo (DECEA)
Jorge Maurício Motta Coordinador Técnico de la REDDIG	Centro Integrado de Defesa Aérea e Controle de Tráfego Aéreo (CINDACTA IV)
José Izidro Apolinario Oficial CNS	Departamento de Controle do Espaço Aéreo (DECEA)
CHILE	
Sergio Gallo Rosales Jefe Subdpto. Planes y Proyectos (S)	Dirección General de Aeronáutica Civil (DGAC)
PARAGUAY	
Aldo Omar Pereira Alcaraz Jefe Sección Radiocomunicaciones	Dirección Nacional de Aeronáutica Civil (DINAC)
Aníbal Enrique Báez Argaña Coordinador de la Unidad de Proyectos de Cooperación Técnica (UPCT)	Dirección Nacional de Aeronáutica Civil (DINAC)

STATE / ESTADO INTERNATIONAL ORGANIZATION / ORGANIZACIÓN INTERNACIONAL NAME / NOMBRE POST / PUESTO	ADDRESS / DIRECCIÓN TELEPHONE / TELÉFONO FAX E-MAIL
PERÚ / PERU	
José Rubira Chauca Gerente de Comunicaciones	Corporación Peruana de Aeropuertos y Aviación Comercial (CORPAC S.A.)
Jorge García Villalobos Jefe Equipo Conmutación Electrónica	Corporación Peruana de Aeropuertos y Aviación Comercial (CORPAC S.A.)
Harry Peñaranda Castro Técnico Nodo REDDIG de Lima - Perú	Corporación Peruana de Aeropuertos y Aviación Comercial (CORPAC S.A.)
José Luis Paredes Dávila Ingeniero CNS	Corporación Peruana de Aeropuertos y Aviación Comercial (CORPAC S.A.)
Rufino Galindo Caro Gerente Técnico	Corporación Peruana de Aeropuertos y Aviación Comercial (CORPAC S.A.)

URUGUAY	
Marcos Vignolo Director de Electrónica	Dirección Nacional de Aviación Civil e Infraestructura Aeronáutica (DINACIA)
Miguel Carbó Jefe Departamento Comunicaciones	Dirección Nacional de Aviación Civil e Infraestructura Aeronáutica (DINACIA)
OACI / ICAO	
Onofrio Smarrelli Especialista Regional en Comunicaciones, Navegación y Vigilancia	Oficina Sudamericana
Luis Alejos Administrador de la REDDIG	Sala Técnica REDDIG CINDACTA IV

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

1.1 Under this Agenda Item, the Meeting took note of the results of the Twelfth Meeting of the REDDIG Coordination Committee (RCC/12), carried out in Lima, Peru, from March 9 to 10, 2009 with the attendance of 6 States of the Region, ten member States (Argentina, Brazil, Chile, Paraguay, Peru, and Venezuela), totalling 20 participants, including ICAO staff.

1.2 REDDIG RCC/12 meeting analyzed the RCC/11 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 **Appendix A** to this Agenda Item presents a list of valid conclusions adopted by the RCC, and their status of implementation to date.

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	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	The REDDIG Administration has been extended until 31 December 2012. The Diplomatic Conference for the drafting and adoption of the final text of the Constituent Agreement of the South American Air Navigation and Safety Organisation, was held on 9-10 December in Brasilia, Brazil. In a final document, the meeting formulated three resolutions: the first one related to the signing and ratification of the Constituent Agreement; the second one on the establishment of its headquarters; and the third one on ICAO support to facilitate the implementation of the organisation.

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC10/1	Expediting logistics in REDDIG member States	<p>That, in order to expedite and do a better follow-up on the import/export of spare parts and the delivery/return of equipment for repair, the REDDIG member States:</p> <p>a) designate a person as administrative-logistics focal point and send this information to the ICAO South American Office by 30 April 2007, and</p> <p>b) investigate and study, together with the REDDIG Administration, the applicable mechanisms to substantially expedite the import/export of equipment and spare parts.</p>	<p>a) Finalised</p> <p>b) Finalised</p>	<p>All members of REDDIG have provided the name of their point of contact for administrative-logistic matters.</p> <p>REDDIG member States have taken into account the need to have effective mechanisms in order to expedite the process of import/export of equipment and spare parts.</p>

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
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	Partially finalised	<p>All the REDDIG member States have made their cost-sharing contributions corresponding to 2008, except Suriname.</p> <p>In the phone conference held with Mr. John Veira, Civil Aviation Director of Suriname, during the RCC/13, he reported that in late March 2010 payments corresponding to 2008 will be deposited, as well as payment corresponding to 2009 that will be deposited in late June 2010.</p>

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
Conclusion RCC 12/1	Actions to keep the REDDIG equipment operational in the coming years	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:		
		a) to keep the existing equipment that make up the REDDIG for an initial minimum period of three years;	a) Finalised	
		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;	b) Finalised	
		c) to purchase the Linkway MODEM spare parts listed in Appendix G to this agenda item by 2010; and	c) Valid	The acquisition of spare parts for the modem equipment has been forecasted
		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.	d) Valid	The meeting analyzed an initial action plan for the REDDIG platform change.

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
Conclusion 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.	Valid	At the end of the first quarter of 2010, trials to determine the minimum bandwidth between two MTA, are scheduled to be completed. The study of bandwidth requirement of the REDDIG, has been joined to the study of the complete change of technology that forms the current REDDIG team.
Conclusion 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.	Partially finalised	In the phone conference held with Mr. John Veira, Civil Aviation Director of Suriname, during the RCC/13, he reported that in late March 2010 payments corresponding to 2008 will be deposited, as well as payment corresponding to 2009 that will be deposited in late June 2010.
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.	Valid	

VALID RCC CONCLUSIONS AND THEIR STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
Conclusion 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.	Finalised	

Agenda Item 2: Report on the activities carried out up to date since the last Meeting of the Coordination Committee of Project RLA/03/901

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 2009, such as:

- a) Follow-up on activities for the implementation of the MEVA II/REDDIG interconnection
- b) 2009 Training Programme
- c) Third REDDIG Technical-Operational Meeting (RTO/3)
- d) Migration to the IS-14 satellite
- e) Alternating operation of NCCs and the REDDIG Management Centre
- f) Optimisation of REDDIG FRAD equipment and upgrading of NCC SUN servers.
- g) Implementation of new services
- h) Logistics and spare part management
- i) Plan for total renewal of the REDDIG platform
- j) Study on bandwidth increase
- k) Follow-up on activities related to the RMO establishment.

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

2.3 The Meeting took note that on 25 March 2009, ICAO and Americom Government Services, Inc. (AGS), MEVA II service provider, signed contract N° 22500187 concerning the interconnection of the MEVA II and REDDIG satellite telecommunication networks.

2.4 As part of the activities specified in the action plan for the implementation of the MEVA II/REDDIG interconnection, the Meeting was informed that the on-site inspection of REDDIG nodes in Bogota and Caracas, was carried out from April 28 to May 1st, 2009. Following the inspection at the AGS sites, they were considered ready to begin installation.

2.5 The Meeting took note that equipment and cards corresponding to the REDDIG nodes involved in the interconnection, as well as the equipment for the COCESNA node, were procured by ICAO.

2.6 ICAO, once purchasing the equipment and cards for the Bogota and Caracas nodes, ICAO sent them to AGS for the corresponding pre-testing and subsequent delivery to the sites for installation. This procedure was established at the Fifth MEVA II/REDDIG Coordination Meeting (Lima, Peru, 7–8 May 2008) in the event REDDIG were to purchase the equipment and cards directly.

2.7 The Meeting updated the focal points list for purposes of coordinating the implementation of the MEVA II/REDDIG interconnection action plan. **Appendix A** to this part of the Report shows the REDDIG updated list of focal points involved in the MEVA II REDDIG interconnection.

2.8 The Meeting was informed that the works for the installation of the MEVA II/REDDIG interconnection at the Bogota and Caracas nodes began on March 1st, 2010 and according to the updated action plan for the MEVA II REDDIG interconnection, the works for the interconnection will be finished

by late March 2010. **Appendix B** to this part of the Report shows the updated action plan for the MEVA II REDDIG interconnection works.

2.9 The Meeting took note that for the implementation and operation of the interconnection between the MEVA II COCESNA node and the REDDIG, ICAO and COCESNA had developed technical cooperation project RLA/09/901, which contains the technical, service, and financial aspects of the interconnection implementation, but it had not yet been signed.

2009 training programme

2.10 The Meeting was informed of the performance of two courses on Satellite Communications and REDDIG Operation; one of which was carried out in Paramaribo, Suriname for REDDIG English speaking members, and the other was held in Maiquetia, Venezuela, for REDDIG Spanish speaking members.

Third REDDIG Technical-Operational Meeting (RTO/3)

2.11 The Meeting informed that two REDDIG Technical-Operational Meetings (RTO/3) were carried out, one in English language in Paramaribo, Suriname, and the other in Spanish language in Maiquetia, Venezuela. These meetings were carried out in Suriname and Venezuela, following the respective courses on satellite communications and REDDIG Operation. The most important points discussed during the Meetings are the local coordination in REDDIG Nodes, in view of the change of satellite IS IR for the IS 14.

Migration to the IS-14 satellite

2.12 The Meeting was informed that on December 15 at 06:45 UTC, INTELSAT conducted the migration to IS-14 satellite. The migration was carried out, without any problem in the REDDIG nodes, and seamlessly for the REDDIG operation. The IS-14 satellite transponder used by the REDDIG is A28CV/A28CV with AMCV/AMCV beam and V/V polarity.

Alternating operation of NCCs and of REDDIG Management Centres

2.13 The Meeting took note that in February 2009, due to a failure in the external clock subsystem (GPS time reference) of Manaus, the NCC (SUN equipment) of Ezeiza, Argentina, was put into operation. The Ezeiza NCC operated for eleven (11) weeks in a satisfactory manner until the end of April, when the Manaus NCC (SUN equipment) was operational once again. During the time the Ezeiza NCC was operating, the Management Centre remained in Manaus and continued to answer calls, offer specialised network support, and manage the network.

2.14 Also the Meeting was informed that the transfer of the Management Centre to Ezeiza scheduled for November 2009 could not be completed due to coordination works for the migration to IS14 satellite.

Optimisation of the REDDIG FRAD equipment and upgrading of NCC SUN servers

Optimisation of REDDIG FRAD equipment

2.15 Since the Memotec FRAD equipment, presently operating on the REDDIG, was

discontinued on 31 July, 2009 by its manufacturer, the Meeting was informed that REDDIG Administration has developed a plan for the optimisation of the FRAD equipment in stations where applicable, consisting in the use of a single FRAD MPS equipment instead of two pieces of equipment (MUX +MPS), but keeping all the services offered in the node.

After an analysis, the network stations that could be optimised, are:

- SBCT – Curitiba, Brazil
- SBRF – Recife, Brazil
- SCEL – Santiago, Chile
- SGAS – Asuncion, Paraguay
- SLLP – La Paz, Bolivia
- SMPM – Paramaribo, Suriname
- SOCA – Cayenne, French Guyana
- SYGC – Georgetown, Guiana
- TTZP – Piarco, Trinidad and Tobago

2.16 The Meeting was informed that, to date, FRAD equipment has been optimised in the following stations:

- SBRF – Recife, Brazil
- SGAS – Asuncion, Paraguay
- SMPM – Paramaribo, Suriname
- SYGC – Georgetown, Guiana

2.17 Optimisation of FRAD equipment in the other five stations will be completed in 2010.

2.18 The Meeting was informed that from a global point of view, these optimisations would yield eighteen (18) basic CX-950 units, each one consisting of a motherboard card, a power supply and a ringing generator, some of which could be used as spare parts for any of the REDDIG stations, with the previous administrative arrangements.

Upgrading of the NCC SUN servers

2.19 The Meeting was informed that in late 2008, the REDDIG Administration coordinated with each of the technical areas of the Argentine and Brazilian Administrations to determine whether or not it was possible to obtain SUN equipment (with a better hardware version than that of the Ultra5 equipment), as a loan, for use as NCC servers.

2.20 Both Argentina and Brazil answered positively and made available to the REDDIG Administration one (1) SunBlade 150 unit on loan. REDDIG Administration installed the entire operative system Unix SUN Solaris8 and the LINKWAY NCC application in both equipments, in Manaus as well as in Ezeiza.

2.21 The Meeting was informed that since April 27, 2009 the SunBlade 150 equipment commissioned in Manaus is being operating satisfactorily as NCC, standing the SunBlade 100 equipment as the “hot stand-by”. The SunBlade 150 equipment, located in Ezeiza first needs to be tested “off-line” and then commissioned as NCC in year 2010 when the Management Centre is temporarily moved to Ezeiza.

Implementation of new services

2.22 The Meeting took note of the following services that were implemented since the last REDDIG coordination meeting;

- Implementation of the back-up network, through the ISDN international circuit for the Piarco TTZP Station in Trinidad and Tobago.
- Implementation of permanent virtual circuits (PVC) between Argentina-Brazil, Argentina-Paraguay, Argentina-Peru, Colombia-Peru, and Chile-Peru for the AMHS systems interconnection.
- Implementation of a PVC circuit between Argentina and Uruguay for the exchange of radar data.

Logistics and spare part management

2.23 The Meeting was informed that in 2009, twenty four logistic operations were conducted. In **Appendix C** to this part of the report, a summary of equipment and part failures are shown, as well as the statistics for 2009 on the number of the main repairs of network nodes, as well as their distribution in terms of type of equipment requiring the service.

Plan for total renewal of the REDDIG platform

2.24 Following the implementation of Conclusion RCC/12/1 (*Actions to keep the operativity of REDDIG equipment in the next years*), the Meeting took note that REDDIG Administration had proceeded with the purchase of a lot of spare parts for FRAD equipment (Memotec) and for MODEM Linkway equipment..

2.25 With reference to the development of a plan for the full change of the technology that governs the current REDDIG equipment, the Meeting discussed two action plans: one that proposes a gradual change in the REDDIG technology and another that considers a full change.

2.26 In this regard, the Meeting established an ad Hoc Group made up of Argentina, Brazil and Peru, which after having analyzed the above proposals, considered it necessary to complete a preliminary study before the implementation of the formulated action plans. The referred study is shown as **Appendix D** to this part of the report.

2.27 To make progress in the studies formulated by the ad Hoc Group, the Meeting considered the possibility that this study continue to be analyzed, at first, in the next SAM IG Implementation Meeting to be carried out in Lima from 10 to 14 May, 2010. In this respect, the secretariat would be in charge of coordinating the necessary actions.

Study on bandwidth increase

2.28 Regarding this aspect, the meeting considered that this analysis be included in the study of the renewal of the whole platform of the REDDIG. The Meeting also considered that Brazil and Argentina complete the trials on bandwidth study for AMHS systems interconnection through REDDIG. In this regard, it was considered that these trails be completed by the end of March 2010.

2.29 The Meeting, taking into account that studies on the bandwidth increase in the REDDIG

were not completed, considered it necessary to maintain the provision of bandwidth increase from the modulated carrier of 0.625Msym/sec to 1.25 Msym/sec in the REDDIG budget for 2010.

2.30 The Meeting was reported of an initial proposal on the regional network optimization, which should continue to be analyzed in the study proposed by the ad Hoc group. Likewise, the Meeting took note of the status of modernization of the Brazilian satellite system (TELESAT).

Follow up on activities related to the establishment of the RMO

2.31 As follow-up on the activities for the establishment of the RMO, the Meeting took note that from 7 to 9 December 2009, a Diplomatic Conference convened by ICAO at the request of the Eleventh Meeting of Civil Aviation Authorities (RAAC 11, Santiago de Chile, May 2009) pursuant to Conclusion 11/3 of said meeting, was held in Brasilia, Brazil. As a result of its discussions, the Conference adopted the text of the *Constituent Agreement for the Establishment of the South American Air Navigation and Safety Organisation* (replaces the RMO) and, by consensus, adopted the following resolutions:

Resolution 1: Regarding the encouragement to the States to sign and ratify the Constituent Agreement for the Establishment of the South American Air Navigation and Safety Organisation

Resolution 2: Regarding the establishment of the headquarters of the South American Air Navigation and Safety Organisation

Resolution 3: Regarding ICAO assistance for expediting the implementation of the South American Air Navigation and Safety Organisation

2.32 The Meeting took note that the Constituent Agreement for the Establishment of the South American Air Navigation and Safety Organisation, was signed at the end of the conference by Chile, Paraguay, and Uruguay. The referred agreement is available for signing by the other ICAO SAM States at the Ministry of Foreign Affairs of Brazil until 30 June 2010, and, after that date, at ICAO Headquarters until it becomes effective. In order for the Organisation to begin its operations, at least five States must have signed.

2.1 In this regard, the Meeting noted that until the South American Air Navigation and Safety Organisation starts its operations, REDDIG will continue to be managed by ICAO.

APÉNDICE A/APPENDIX A

PUNTOS FOCALES PARA COORDINAR LA IMPLANTACIÓN DEL PLAN DE ACCIÓN
PARA LA INTERCONEXIÓN MEVA II/REDDIGFOCAL POINTS FOR COORDINATING THE IMPLEMENTATION OF THE ACTION PLAN
FOR MEVA II/REDDIG INTERCONNECTION

ESTADO ORG./ STATE ORG.	NOMBRE-TITULO/ NAME-TITLE	DATOS DE CONTACTO/ CONTACT INFORMATION
BRASIL/ BRAZIL	<p>Dalmo Jose Braga Paim Athayde Oficial CNS</p> <p>Jorge Mauricio Motta Coordinador Técnico REDDIG/REDDIG Technical Coordinator</p> <p>Alessandro Stefson Mamede Alves Coordinador Técnico REDDIG/REDDIG Technical Coordinator</p> <p>Jose Izidro Apolinario Oficial CNS</p>	<p>Centro Integrado de Defesa Aérea e Controle de Tráfego Aéreo - CINDACTA IV Av. Do Turismo ,S/N Taruma, Manaos –AM ,Brasil Tel +55 9236525568 Fax +55 9236525501 Email tel@cindacta4.decea.gov.br</p> <p>Centro Integrado de Defesa Aérea e Controle de Tráfego Aéreo - CINDACTA IV Av. Do Turismo sin Taruma Manaus – AM, Brasil Tel +55 92 36525536 Fax +55 92 36525501 Email tten@cindacta4.decea.gov.br</p> <p>Centro Integrado de Defesa Aérea e Controle de Tráfego Aéreo - CINDACTA IV Av. Do Turismo sin Taruma Manaus – AM, Brasil Tel +55 92 36525470 Fax +55 92 36525501 Email taa@cindacta4.decea.gov.br</p> <p>Departamento de Controle do Espaço Aéreo - DECEA Av General Justo 160, Castelo, Rio de Janeiro, Brasil Tel. +55 21 21016225 Fax +55 21 21016219 Email dcte6@decea.gov.br</p>
COLOMBIA	<p>Sergio Paris Asesor del Director de la UAEAC/ UAEAC Director Adviser</p>	<p>Unidad Administrativa Especial de Aeronáutica Civil - UAEAC Dirección Telecomunicaciones Aeropuerto Internacional El Dorado Tel +57 1 2663672 Fax +57 1 2223486</p>
ECUADOR	<p>Raúl Avellán Oña Asuntos técnicos:/Technical matter</p> <p>Aida Justina Moreno Gómez Jefe Comunicaciones Satelitales RI – Asuntos Administrativos/Chief RI satellite communications</p>	<p>Aeropuerto José Joaquín Olmedo Guayaquil, Ecuador Tel +593 42 692829 Cel +593 84 362441 REDDIG 2308 / 2309 Email ravellan1@yahoo.com</p> <p>Dirección General de Aviación Civil Cerro Mojas, Edificio Servicio para la Navegación Aérea, Quito, Ecuador Tel. + 593 260 1434 Fax + 593 260 1434 E-mail aida_moreno@dgac.gov.ec</p>

ESTADO ORG./ STATE ORG.	NOMBRE-TITULO/ NAME-TITLE	DATOS DE CONTACTO/ CONTACT INFORMATION
PERU	José Rubira Chauca Gerente de Comunicaciones	Corporación Peruana de Aeropuertos y Aviación Comercial - CORPAC S.A. Aeropuerto Internacional Jorge Chávez Av. Elmer Faucett s/n, Callao 1, Perú Tel. +511 630-1196 Fax: E-mail jrubira@corpac.gob.pe
	Jorge García Villalobos Jefe Equipo Conmutación Electrónica	Corporación Peruana de Aeropuertos y Aviación Comercial - CORPAC S.A. Aeropuerto Internacional Jorge Chávez Av. Elmer Faucett s/n, Callao 1, Perú Tel. +511 414-1432 Fax: +511 414-1450 E-mail jgarcia@corpac.gob.pe
VENEZUELA	Luis E. Escobar Jefe Telecomunicaciones / Chief Telecommunications Wilton R. Linarez Gerente General de la Oficina de Tecnología de la Información "OTI"/ General Manager Information Technology Office	Aeropuerto de Maiquetía Aeropuerto Simón Bolívar, Edif. ATC, Piso 2 Maiquetía, Venezuela Tel +58 212 3552143 Fax +58 212 3551412 Mail scoguil5@cantv.net l.escobar@inac.gob.ve Instituto Nacional de Aeronáutica Civil - INAC Altamira Sur, Torre Británica, Piso 2 Caracas, Venezuela Tel +58 212 2774403 Fax +58 212 2774403 E-mail w.linarez@inac.gob.ve
COCESNA	Roger Perez Gerente Estación Honduras /Honduras General Manager	Corporación Centroamericana de Servicios de Navegación Aérea - COCESNA Apartado Postal No. 660 Tegucigalpa, D. C., Honduras, C. A. Tel. + 504 234 3360 ext. 1461 Fax + 504 234 3682 E-mail rperez@cocesna.org

UPDATED ACTION PLAN FOR IMPLEMENTATION OF MEVA II AND REDDIG INTERCONNECTIONS
PLAN DE ACCIÓN ACTUALIZADO PARA LA IMPLANTACIÓN DE LAS INTERCONEXIONES MEVA II Y REDDIG

Date/Fecha: February/Febrero 2010

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
1	RFP Completion/Finalización del RFP	COCESNA	30-Apr-07	Completed / Finalizado
2	Required connections: / Conexiones requeridas: Aruba COCESNA Ecuador Colombia Peru Venezuela Brazil / Brasil Panama United States / Estados Unidos Jamaica Curacao / Curazao	MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	30-Apr-07 / 30-Abr-07	Completed / Finalizado
3	Identification of Current Equipment / Identificación de Equipo Actual	MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	28 Sep-07	Completed / Finalizado
4	Completion of SLA / Finalización de SLA	MEVA II Service Provider and REDDIG Administrator / Proveedor Servicio MEVA II y Administración REDDIG	25Mar-09	Completed/Finalizado El 25 de marzo de 2009 entre la OACI y el Proveedor de servicio de la MEVA II se firma del contrato para la implantación de la interconexión MEVA II REDDIG/ The 25 March 2009 between ICAO and MEVA II Communications service provider is signed the contract for the implementation of MEVA II REDDIG

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

RFP: Request for Tecnical and Econmic Proposal / Solicitud de Propuestas Técnicas y Económicas

SLA: Service Level Agreement / Acuerdo de Nivel de Servicio

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas	
1	2	3	4	5	
5	Review of RFP / Revisión de RFP	MEVA II and REDDIG Members / Miembros MEVA II y REDDIG	29 June -07/ 29 Junio 07	Completed / Finalizado The RFP was reviewed and approved by all MEVA II / REDDIG Member Administrations. / El RFP fue revisado y aprobado por todas las Administraciones miembros de las redes MEVA II y REDDIG.	
6	Proposals response / Respuesta de propuestas	MEVA II Service Provider and REDDIG Administration / Proveedor Servicio MEVA II y Administración REDDIG	26 Sep.-07	Completed / Finalizado The response for the RFP from the MEVA II Service Provider and REDDIG Administration was presented at the MR/5 Meeting/ Las respuestas al RFP por parte del Proveedor de Servicio MEVA II y la Administración de la REDDIG se presentaron en la Reunión MR/5.	
7	Proposals review / Revisión de propuestas	Coordination meeting / Reunión de coordinación	5 Oct.-07	Completed / Finalizado The proposal was reviewed in the MR/5 Meeting. / La propuesta se revisó en la Reunión MR/5.	
8	Focal Point nomination / Nombramiento Punto Focal	Send a letter to MEVA II / REDDIG Member Administrations / Envío carta a las Administraciones miembros de las redes MEVA II y REDDIG.	ICAO Regional Offices / Oficinas Regionales OACI	15 Oct. 07	Completed / Finalizado The ICAO Regional Offices sent to the States/Organization involved in the MEVAII REDDIG interconnection a letter in order to nominate focal points. Las oficinas regionales de la OACI enviaron una carta invitando los Estados/Organización involucrados en la interconexión la nominación de puntos focales.
		Focal point designation/ Designación punto focal	MEVA II and REDDIG Members involved / Miembros de MEVA II y REDDIG involucrados	30-Oct-07	Completed / Finalizado All the States/Organization members of MEVA II and REDDIG network involved in the interconnection nominated focal points. Todos los Estados/Organización miembros de la REDDIG y MEVA II involucrados en la interconexión nominaron puntos focales.
9	Application of MoU reviewed / Aplicación del MoU revisado	MEVA II / REDDIG Member Administrations / Administraciones miembros de las redes MEVA II y REDDIG	30-Oct-07	Completed / Finalizado States/Organization members of MEVA II REDDIG reviewed the MoU application Los Estados/Organizaciones miembros de la MEVA II y REDDIG revisaron la aplicación del MoU	

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
10	Review and acceptance of equipment costs for the MEVA II / REDDIG interconnection by the REDDIG Member Administrations / Revisión y aceptación por parte de las Administraciones Miembros de la REDDIG sobre costo de equipamiento para la interconexión MEVA II / REDDIG	All the REDDIG Member States / Todos Estados miembros de REDDIG	30 Oct-07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto
11	Review and acceptance of equipment costs for the MEVA II / REDDIG interconnection by the MEVA II Member Administrations involved / Revisión y aceptación por parte de las Administraciones Miembros de la MEVA II involucradas sobre costo de equipamiento para la interconexión MEVA II / REDDIG	Aruba, Curaçao, Jamaica, Panama, USA (Miami and Puerto Rico) and COCESNA / Aruba, Curaçao, Jamaica Panamá, USA (Miami y Puerto Rico) y COCESNA	30 Oct -07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto
12	Review and acceptance of proposed recurrent costs for the MEVA II / REDDIG interconnection/ Revisión y aprobación costos recurrentes propuestos para la interconexión MEVA II REDDIG	MEVA II/ REDDIG Member Administrations involved / Administraciones Miembros de la MEVA II y REDDIG involucradas	30 Oct- 07	Completed / Finalizado No comments were received No se recibieron comentarios al respecto
13	Revised MoU Signature / Firma del MoU Revisado	MEVA II and REDDIG Members / Miembros MEVA II y REDDIG	30 Nov 07	Completed / Finalizado All the States REDDIG members signed the MoU reviewed. For MEVA II only Cuba, COCESNA and United States signed the MoU the rest of MEVA II States informed that they have reviewed and accepted the MoU Todos los Estados miembros de la REDDIG firmaron el MoU revisado. Para la MEVAII solamente Cuba, COCESNA y Estados Unidos firmaron el MoU el resto de los Estados miembros de la MEVA II informaron que habían revisado y aceptado el MoU revisado.

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

RFP: Request for Technical and Economic Proposal / Solicitud de Propuestas Técnicas y Económicas

SLA: Service Level Agreement / Acuerdo de Nivel de Servicio

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
14	Review, approval and signing of contracts or contract amendments to carry out the MEVA II / REDDIG interconnection presented by the MEVA II Service Provider / Revisión, aprobación y firma de los contratos o enmienda de los mismos para llevar a cabo la interconexión MEVA II/REDDIG presentada a través del Proveedor de Servicio de la MEVA II	MEVA II Member Administrations involved and REDDIG Administration / Administraciones Miembros de la MEVA II involucradas y Administración REDDIG	25 Mar 2009	Completed/Finalizado The 25 March 2009 between ICAO and MEVA II communication service provider is signed the contract to carry out the MEVA II REDDIG interconnection. El 25 de marzo de 2009 se firma el contrato entre la OACI y el proveedor de servicios de comunicaciones de la MEVA II para llevar a cabo la interconexión MEVAII REDDIG
15	To ensure that all MEVA II and REDDIG nodes work with IS-IR Satellite, using Band C transponder with US/Latin America hemispheric beam and Co-Linear Vertical polarization / Asegurar que todos los nodos de la MEVA II y REDDIG operen en el satélite IS-IR, empleando transpondedores de banda C con haz hemisférico US/Latin America y polarización co-lineal vertical.	MEVA II Service Provider and REDDIG Administration/ Proveedor Servicio MEVA II/ Administración REDDIG	Nov -08	Completed / Finalizado In the month of November 2008 AGS proceeded to change the polarity from horizontal to vertical of the MEVA II nodes. With this implementation all the preliminary requirements for the interconnection were satisfied. En el mes de noviembre de 2008 AGS procedió a la implantación del cambio de polaridad de horizontal a vertical de los nodos de la MEVA II. Con esta implantación todos los requerimientos preliminares para la interconexión MEVAII REDDIG están satisfechos.

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
16	Equipment and spare parts acquisition for MEVA II/REDDIG interconnection/ Adquisición de equipamiento y repuestos para la interconexión MEVA II / REDDIG.	REDDIG Administration and MEVA II involved Member Administrations / Administración de la REDDIG y Administraciones Miembros de la MEVA II involucradas	Mar- 09	Completed/Completado ICAO acquired the equipments and cards required for REDDIG nodes involved in the MEVA REDDIG interconnection. Also acquired the equipments for the COCESNA MEVA II node. The rest of the States of MEVA II involved in the interconnection acquired the equipments and cards trough MEVA II service provider. OACI adquirió los equipos y tarjetas requeridas para la interconexión MEVA II REDDIG en los nodos REDDIG involucrados. También adquirió los equipos para el nodo MEVA II de COCESNA. El resto de los Estados MEVA II involucrados en la interconexión adquirió los equipos y tarjetas a través del proveedor de servicio de MEVA II

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

RFP: Request for Tecnical and Econmic Proposal / Solicitud de Propuestas Técnicas y Económicas

SLA: Service Level Agreement / Acuerdo de Nivel de Servicio

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
17	Site survey for Bogota, Caracas , / Inspección sitio para Bogotá, Caracas, Site Survey for Tegucigalpa Honduras	MEVA II Service Provider / Proveedor MEVA II y REDDIG Administration/ Administración REDDIG	Mayo - 09 April - 2010	Completed/Completada From 27 to 1 May 2009 AGS completed the Site Survey in the REDDIG nodes of Bogotá and Caracas. Desde el 27 al 1 de mayo de 2009 AGS completo la inspección en sitio en los nodos REDDIG de Bogotá y Caracas.. The site survey in COCESNA MEVAII node will be made once the ICAO COCESNA project for MEVA II REDDIG interconnection will be signed (end of March 2010) La inspección en sitio en el nodo MEVAII de COCESNA se realizara una vez que se firme el proyecto entre la OACI y COCESNA para la interconexión MEVAII REDDIG (Finales de marzo de 2010)
18	Site preparation for equipment installation for MEVA II / REDDIG interconnection / Preparación de los sitios para albergar equipamiento para la interconexión MEVA II / REDDIG	Colombia, Venezuela and/y COCESNA	Jun-09	Completed /Completado

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
19	Delivery of purchased equipment at the required sites. / Entrega de equipamiento adquirido en los sitios requeridos	MEVA II Service Provider /Proveedor de Servicio MEVA II REDDIG Administration / Administración REDDIG	Jul-09 Apr/Abr-2010	<p>Completed/ Completado</p> <p>The equipments necessary for the MEVA II REDDIG interconnection in REDDIG nodes were acquired by ICAO , reviewed by MEVA II service provider and delivered to the REDDIG nodes involved in the MEVA II REDDIG interconnection</p> <p>The equipments for MEVA II nodes involved in the interconnection except COCESNA were acquired and delivered by MEVA II service provider to the respective nodes.</p> <p>Los equipos para la interconexión MEVA II REDDIG en los nodos REDDIG fueron adquiridos por OACI, revisados por el proveedor de servicio de MEVA II y enviados a los nodos REDDIG involucrados en la interconexión MEVAII REDDIG.</p> <p>Los equipos para los nodos MEVA II involucrados en la interconexión excepto COCESNA fueron adquiridos y entregados por el proveedor de servicio MEVA II a los respectivos nodos.</p> <p>The equipments for COCESNA MEVAII node was acquired and reviewed by REDDIG Administration. The equipments will be delivered to COCESNA once the ICAO and COCESNA signs the project for the interconnection of COCESNA MEVA II node with REDDIG.</p> <p>Los equipos para el nodo MEVAII de COCESNA fueron adquiridos y revisados por la administración de la REDDIG . Los equipos serán entregados a COCESNA una vez que entre la OACI y COCESNA se firme el proyecto de interconexión del nodo MEVAII de COCESNA con la REDDIG</p>

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

RFP: Request for Technical and Economic Proposal / Solicitud de Propuestas Técnicas y Económicas

SLA: Service Level Agreement / Acuerdo de Nivel de Servicio

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
20	Equipment installation / Instalación equipamiento	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	<p>March 2010</p> <p>Apr/Abr-2010</p>	<p>MEVAII service provider started the interconnection works in Bogota REDDIG node the 15th February 2010. The installation work was interrupted due software problem configuration in the MEVAII MODEM. At this respect MEVAII service provider re-programmed the installation date for the first week of March 2010.</p> <p>El proveedor de servicio MEVA II comenzó los trabajos de interconexión en el nodo REDDIG de Bogotá el 15 de febrero de 2010. El trabajo de instalación fue interrumpido debido a un problema de configuración del software del modem del MEVAII. Al respecto, el proveedor de servicio MEVA II, reprogramó la fecha de instalación para la primera semana de marzo de 2010.</p> <p>MEVA II service provider started the interconnection works in Bogota REDDIG node on March 1st, 2010. The works in Bogota were completed the 10th March of 2010. The interconnection works in Venezuela started on March 11th and were completed on March 16th, 2010.</p> <p>El proveedor de servicio MEVA II inicio los trabajos de interconexión en el nodo REDDIG de Bogotá el 1° de marzo de 2010. Los trabajos en Bogotá se completaron el 10 de marzo del 2010. Los trabajos de interconexión en Venezuela, se iniciaron el 11 de marzo y se completaron el 16 de marzo del 2010.</p> <p>The equipments installation in COCESNA MEVA II network will be made once the once the ICAO COCESNA project for MEVA II REDDIG interconnection will be signed.</p> <p>La instalacion de los equipos en el nodo MEVA II de COCESNA se hará una vez que se firme el proyecto entre la OACI y COCENA para la interconexión.</p>

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
21	Satellite line-up, configuration of site equipment and NCC for the interconnection/ Line-up satelital, configuración equipamiento en sitio y NCC para interconexión	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Mar - 2010 Apr/Abril-2010	For the installation of the interconnection in Bogota and Caracas Para la instalación de la interconexión en Bogotá y Caracas For the installation of the interconnection in the COCESNA MEVAII node. Para la instalación de la interconexión en el nodo MEVA II de COCESNA
22	End-to-end trials for voice and data circuits / Pruebas de extremos a extremos para los circuitos de voz y datos	MEVAII Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Apr/Abr-2010 Apr/Abr-2010	For the voice and data circuit specified in the interconnection of REDDIG nodes of Bogota and Caracas with MEVA II network , Contract between ICAO and MEVA II service provider (.N° 22500187) Para los circuitos de voz y datos especificados en la interconexión de los nodos REDDIG de Bogotá y Caracas con la red MEVA II , contrato entre la OACI y el proveedor de servicio MEVA II (.N° 22500187) For the voice circuit specified in the interconnection of COCESNA MEVA II node with REDDIG, network , project between ICAO and COCESNA (RLA/09/901) Para los circuitos de voz especificados en la interconexión del nodo MEVA II de COCESNA con la red REDDIG, proyecto entre la OACI y COCESNA (RLA/09/901)

Legend / Leyenda:

MoU: Memorandum of Understanding / Memorando de Entendimiento

RFP: Request for Technical and Economic Proposal / Solicitud de Propuestas Técnicas y Económicas

SLA: Service Level Agreement / Acuerdo de Nivel de Servicio

APPENDIX C

SUMMARY OF FAILURES ON EQUIPMENT AND PARTS AND SERVICE GIVEN TO NODES

FAILURES ON EQUIPMENT AND PARTS

FRAD**Manufacture: Memotec**

- (1) Power Supply Module : (1) SLLP
- (4) Universal I/O Card : (1) SAEZ, (2) SBMN, (1) SKED
- (2) Motherboard CX950 : (1) SGAS, (1) SAEZ
- (1) E&M SLIM Card : (1) SVMI
- (3) FXS SLIM Card : (3) SYGC
- (1) DAV Card : (1) SBRF
- (4) Internal Fan : (2) SBMN, (2) SAEZ

MODEM**Manufacturer: ViaSat**

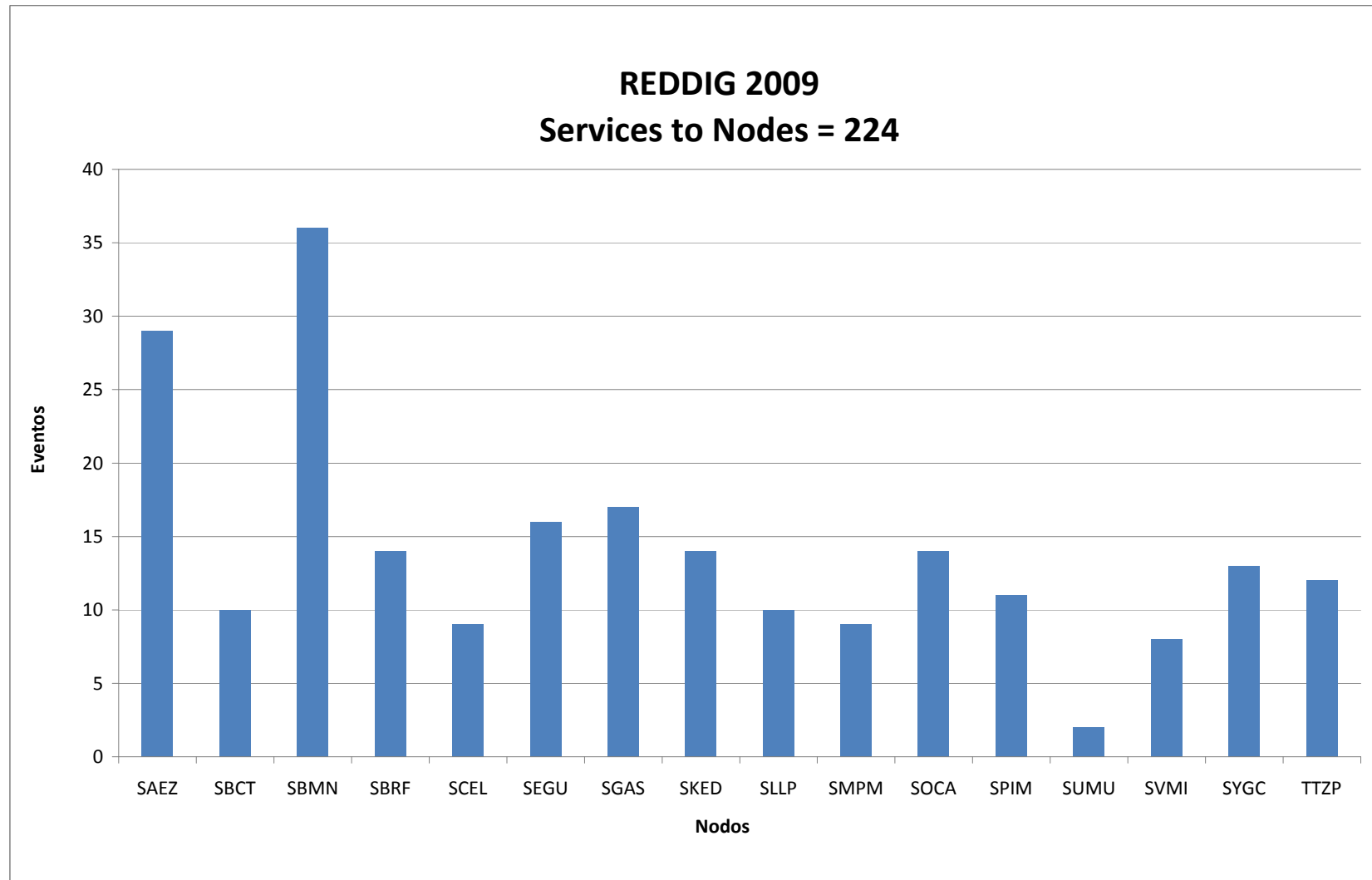
- (13) Quad Output P.S. : (2) SPIM, (2) SEGU, (3) SKED, (2) SCEL, (1) SBRF
(1) SGAS, (1) SOCA, (1) SVMI
- (1) Terminal LW2100 : (1) SUMU

SSPA**Manufacturer: Paradise Datacom**

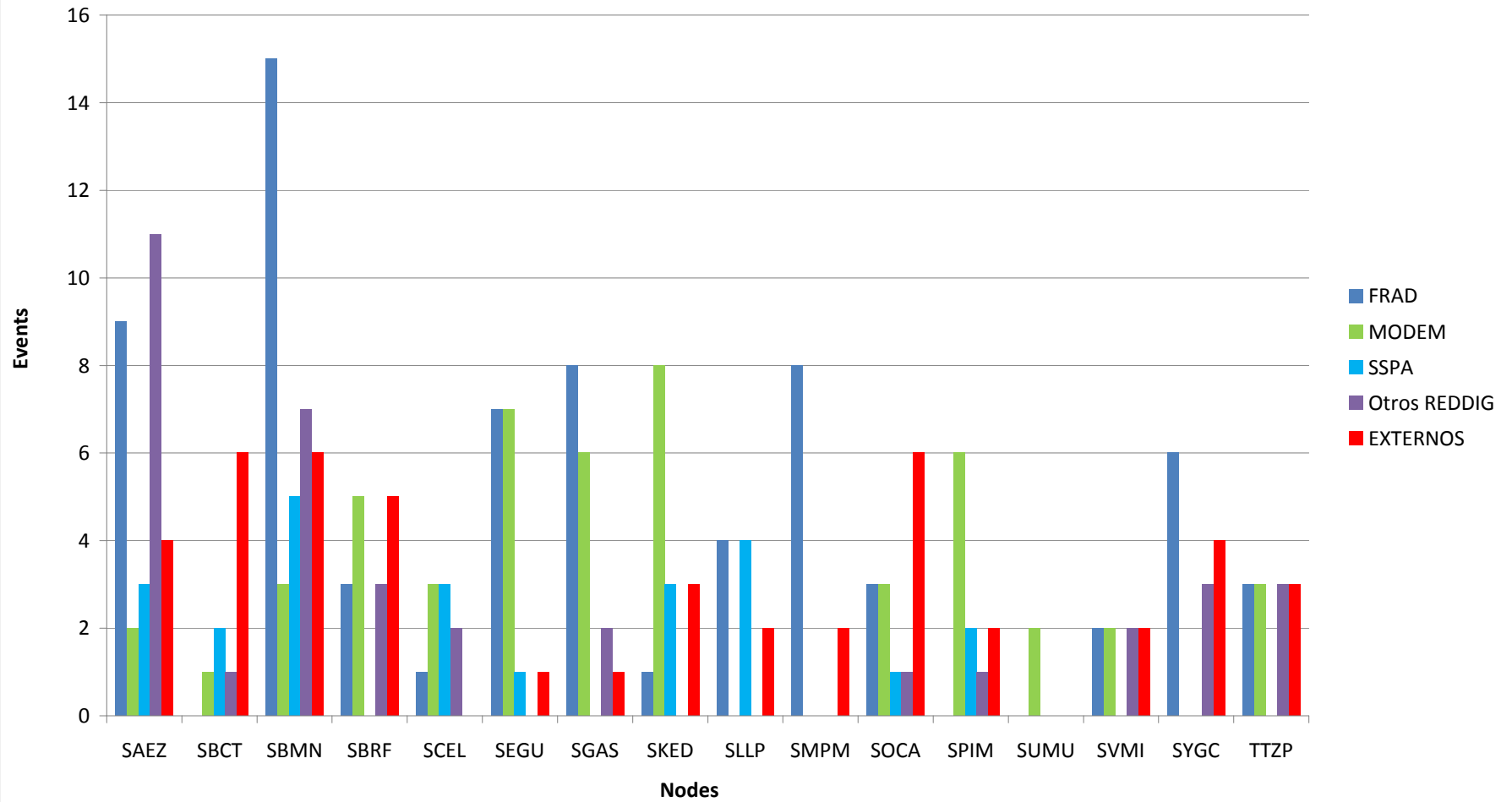
- (2) SSPA M&C : (1) SBMN (1) ADM

Others REDDIG

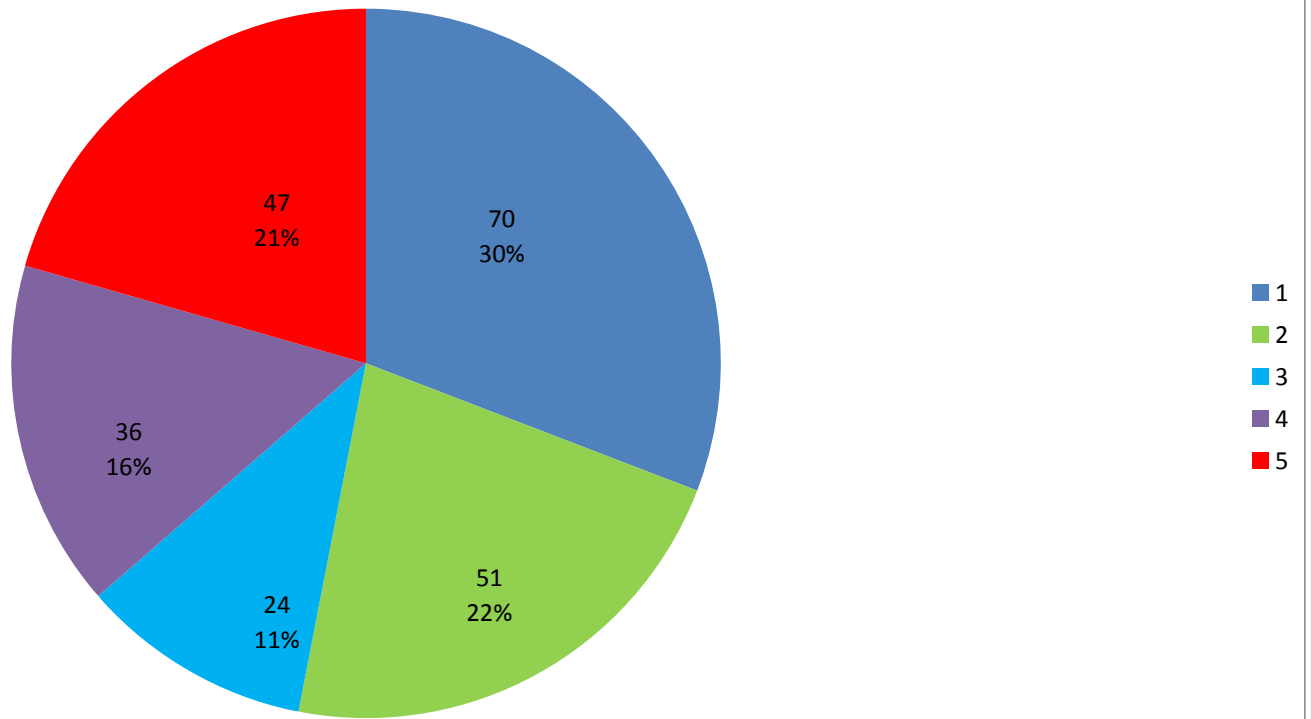
- (1) Time Reference GPS : (1) SBMN
- (1) I/O Card PC Linux : (1) SCEL



REDDIG 2009 Distribution of Services



REDDIG 2009 Distribution of service per equipment type



APPENDIX D

PRELIMINARY STUDIES TO BE CONDUCTED FOR THE CHANGE OF THE REDDIG TECHNOLOGICAL PLATFORM

(Information prepared by the ad Hoc Group made up of Argentina, Brazil and Peru)

1.1 For the study, the following criteria were taken into consideration:

- 1.1.1. Availability.
- 1.1.2. BER
- 1.1.3. Bandwidth (BW).
- 1.1.4. Current Technology (equipment installed).
- 1.1.5. Types of services to be implemented..
- 1.1.6. Unique telecommunications provider.

1.2 Considering the criteria previously determined, the following proposal is shown:

1.2.1. Case 1:

- 1.2.1.1. Analyze a primary terrestrial network for current applications and ATN and necessary bandwidths.
- 1.2.1.2. Analyze a back up satellite network in case of contingency.

1.2.2. Case 2:

- 1.2.2.1. Analyze a primary satellite network for current applications and ATN and necessary bandwidths.
- 1.2.2.2. Analyze a back up network in case of contingency.

1.2.3. To determine the appropriate equipment.

1.2.4. Perform cost-benefit studies for each of the proposed solutions

1.2.5. The final solution (full or gradual change) will be analyzed after the associated costs to study the impact on each of them are available.

Agenda Item 3: Work Plan for 2010

3.1 Under this Agenda item, an analysis was made to the proposal of activities presented by REDDIG Administration to be performed during 2010, among which are to be highlighted:

- a) continuation of activities for the implementation of MEVA II / REDDIG interconnection;
- b) 2010 Training programme;
- c) REDDIG NCC and Management Centre operation alternation;
- d) Implementation of new services;
- e) plan for the total renewal of the REDDIG platform; and
- f) study on the need to increase bandwidth and on Regional ATN architecture.

Continuation of activities for the implementation of MEVA II / REDDIG interconnection

3.1 The Meeting took note of the activities related with the implementation of the MEVA II / REDDIG interconnection for 2010, in this regard **Appendix B** of Agenda Item 2, shows the updated action plan for this purpose.

2010 Training programme

3.3 In accordance with the REDDIG 2008-2010 Training Plan, prepared by the REDDIG Administration and the Ad-hoc Group, this year the course Communications Networks and Data Transmission, is scheduled to be held, which agenda is shown in **Appendix A** to this part of the report.

3.4 The meeting received the offer by the delegation of Brazil and Peru to be host countries for this event. In this regard, the meeting was informed that the REDDIG Administration would evaluate these offerings, prevailing the city representing less costs for Project RLA/03/901 Project. The course would be tentatively scheduled for late September 2010.

3.5 The delegate from Peru reported that if the course was to be held in Lima, he would prefer it to be on the date on which they would be starting the implementation of the VSAT network in Peru; in this way, they would be bringing to the course with additional instructing staff. In this regard, the delegate from Peru would inform the corresponding date to the South American Regional Office of ICAO.

REDDIG NCC and Management Centre operation alternation

3.6 Taking into account that the alternation of operation of NCCs and of the REDDIG Management Centre is a continuous procedure in order to keep the network's respective redundancy, the Meeting considered that the NCC operation be transferred this year for three weeks from Brazil to Argentina, at early second semester of 2010, staying the Management Centre in Manaus.

Implementation of new services

3.7 The Meeting took note that in 2010 the following services would be implemented in the REDDIG:

- New voice circuits and data required in the MEVA II REDDIG (see Appendix

A WP/03)

- Exchange of radar data and flight plans between Argentina and Brazil, Argentina and Uruguay and Brazil and Uruguay (Memorandum of Understanding was established for this purpose)
- Exchange of AMHS systems between Argentina-Paraguay, Argentina-Brazil and Paraguay-Brazil
- Voice circuit between Aeroparque Tower (Argentina) and Colonia Tower (Uruguay)

Plan for the total renewal of the REDDIG platform

3.8 This item was discussed en Agenda Item 2, the activities to be conducted in 2010 are considered in this part of the report.

Study on the need to increase bandwidth and on Regional ATN architecture

3.9 Will continue with foreseen trials for determining minimum bandwidth for AMHS communications among Regional MTA; in the same way, will continue analyzing the requirement of bandwidth for data exchange among automated ACC. Additional information on this subject is shown in Agenda Item 2 of the report.

APPENDIX A

REDDIG COURSE 2010 COMMUNICATION NETWORKS AND DATA TRANSMISSION

1. **LAN networks**
 - a. Architecture types
 - b. Access methods
 - c. 802 Project and standards
 - d. Network comparison
2. **Commuting**
 - a. Circuits commuting
 - b. Packages commuting
 - c. Messages commuting
3. **Telephone network applications**
 - a. PPP protocol
 - b. ISDN service
4. **Frame Relay (Plot retransmission)**
 - a. Operation
 - b. Levels and congestion control
 - c. Traffic control
 - d. REDDIG applications and use
5. **Network devices and networks interconnection**
 - a. Repeaters
 - b. Bridges
 - c. Routers and algorithm
 - d. Protocol converters (Gateways)
6. **TCP/IP Protocols set**
 - a. TCP/IP – Internet – OSI
 - b. Network level – IP Protocol
 - c. Addressing and sub-networks
 - d. Other protocols at network level
 - e. Transportation level
 - f. Client – server model
 - g. Client – server applications: TELNET, FTP, SMTP, SNMP
 - h. Routers programming
 - i. REDDIG applications and uses
7. **IP aeronautical applications**
 - a. AMHS
 - b. Radar data exchange
 - c. GNSS
 - d. CNS/ATM applications integration
8. **Communications systems generalities**

- a. Data transmission
 - b. Networks and their criteria
 - c. Protocols and standards
- 9. Basic concepts**
- a. Link configuration
 - b. Topology
 - c. Transmission mode
 - d. Network classes
- 10. OSI Mode**
- a. Architecture and model levels
 - b. Functions and levels interconnection
- 11. Signals, Coding and Modulation**
- a. Digital signals
 - b. Digital to digital conversion
 - c. Analogical to digital conversion
 - d. Digital to analogical conversion
 - e. Analogical to analogical conversion
- 12. Data transmission interfaces**
- 13. Data transmission media**
- a. Guided media (Plaited pair cable, coax cable, wave guide and optical fibre)
 - b. Non-guided media (radio frequency and propagation, microwaves, via satellite)
 - c. Transmission deterioration
 - d. Media comparison
- 14. Multiplexation**
- a. Frequency division (FDM)
 - b. Time division (TDM)
 - c. Applications and ranks
- 15. Error correction and link control**
- a. Type of errors
 - b. Detection and error correction
 - c. Flux control
 - d. Error control
- 16. Data link protocols**
- a. Asynchronical and synchronic protocols
 - b. Character-oriented protocols
 - c. Bit-oriented protocols (HDLC)

Agenda Item 4: Financial Situation of Project RLA/03/901 and Approval of the 2010 Budget

4.1 Under this agenda item, the Meeting was informed on the obligations incurred by the Project during 2009 and on the situation of cost-sharing contributions, and analyzed the budget for the years 2010, 2011 and 2012.

Status of cost-sharing contributions

4.2 The Meeting took note of the situation of cost-sharing contributions presented in Chart 1 and where it is observed that Suriname has pending contributions since 2007.

4.3 The Meeting was informed that ICAO Regional Office had already delivered three reminders, therefore, the Meeting would have to decide whether to proceed to the next phase, which includes a series of actions that end up in the total suspension of PVC circuits in Suriname.

4.4 Given the concern in this regard, the Meeting agreed to conduct a conference call with Mr. John Veira, Civil Aviation Director of Suriname, the same one that was made and where Mr. Veira committed to send a document containing the schedule of outstanding payments for the years 2007, 2008 and 2009, as well as of the contribution corresponding to 2010. Therefore, the Meeting decided to postpone the suspension of the services. Consequently, he announced that the pending contributions of 2007 and 2008 will be deposited at the end of March 2010 and the corresponding to 2009 will be deposited at the end of June 2010.

Summary of obligations contracted by Project RLA/03/901 during years 2003 through 2009

4.5 The Meeting was informed of the obligations contracted by Project RLA/03/901 from year 2003 to 2009 (**See Chart #2**). Note can be taken that in 2003, obligations were contracted for a total of USD 96,108; USD399,341 in 2004; USD 534,382 in 2005; USD 506,496 in 2006; USD 612,343 in 2007; USD 561,640 in 2008 and USD676,661 in 2009. On the other hand, contributions received to date amount to USD 4,030,590, showing a favorable balance estimated in **USD633,089**. Also, **Chart # 3** shows a bar chart regarding project expense distribution in 2003, 2004, 2005, 2006, 2007, 2008 and 2009, as well as a pie chart, clearly showing total execution per budgetary line (2003, 2004, 2005, 2006, 2007, 2008, and 2009).

4.6 Furthermore, the 2010 budget amounts approximately to **USD 926,356**, which, should be executed with the remaining funds of the Project (+ USD 633,089), plus the 2010 contributions and those pending from previous years.

4.7 Despite the favourable financial balance of the project, timely payment of 2010 contributions will be required so as not to hinder project implementation. In this respect, the following conclusion is submitted for adoption by the Meeting:

Conclusion 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.

RLA/03/901 Budget

4.9 The Meeting took note of the budget prepared by the Secretariat with the forecast for the increase in the satellite bandwidth, starting year 2010.

4.10 After analyzing in detail the project budget submitted by the Secretariat, which includes an expansion of the amount of the project until 2012, the Meeting agreed to adopt the following conclusion:

Conclusion RCC 13/2 Revisión 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.

Chart 1
Situation of cost sharing contributions to Project RLA/03/901
Corresponding to years 2003, 2004, 2005, 2006, 2007, 2008 and 2009

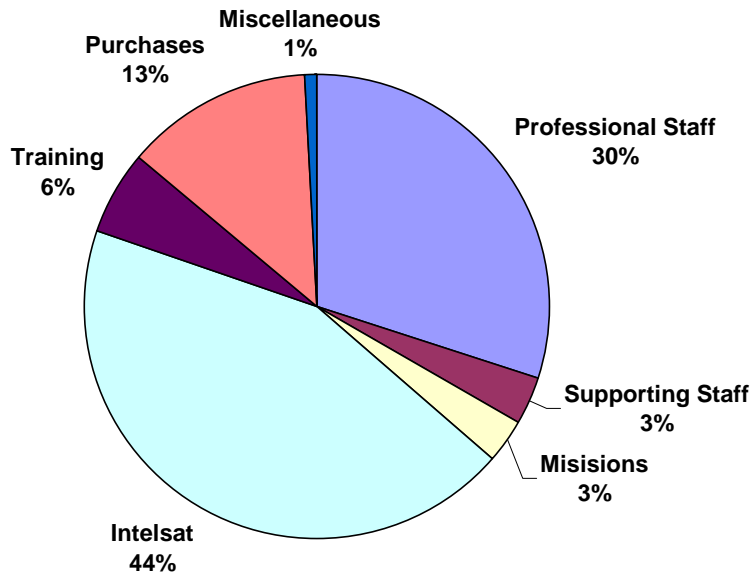
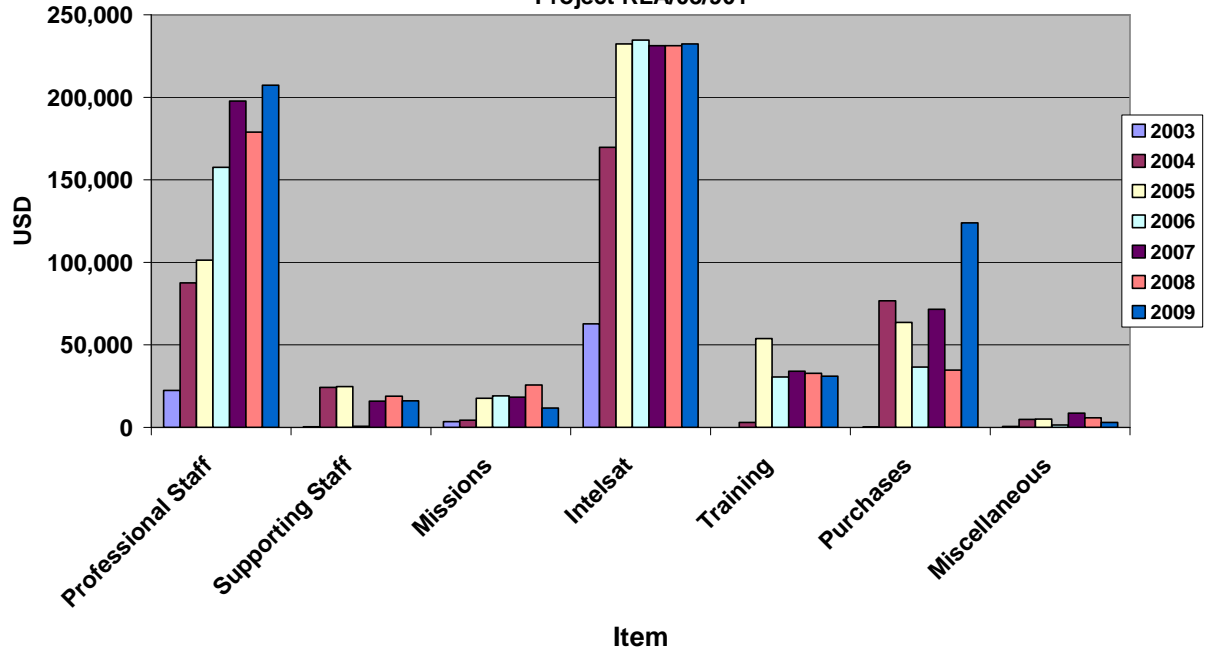
State	Quota	Debt	Quota	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt	Total Deposits	Total Debt	
	2003		2004		2005		2006		2007		2008		2009			
Argentina	50,363	0	30,100	0	37,800	0	44,800	0	66,700	0	80,000	0	85,063	0	396,125	0
Bolivia	39,563	0	22,100	0	28,900	0	33,600	0	10,900	0	43,675	0	52,460	0	231,198	0
Brasil	123,79	0	72,900	0	79,400	0	111,000	0	60,800	0	81,444	0	118,154	115	647,373	115
Chile	40,013	0	35,100	0	36,400	0	67,000	0	28,710	0	29,500	0	29,500	0	266,223	0
Colombia	24,269	0	0,000	0	162,094	0	0,000	0	150,000	0	0	0	7,441	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	222,167	0
Francia	34,763	0	11,300	0	20,900	0	26,400	0	25,000	0	45,795	0	51,371	0	215,529	0
Guyana	34,313	0	9,900	0	19,900	0	22,900	0	15,000	0	35,935	0	43,009	0	198,537	0
Paraguay	35,363	0	12,700	0	21,900	0	30,700	0	25,600	0	46,160	0	53,262	0	225,685	0
Perú	49,613	0	28,300	0	36,500	0	39,690	0	40,000	0	71,372	0	77,820	0	343,305	0
Surinam	34,313	0	7,400	0	18,500	0	28,700	0	18,300	3,965	36,412	22,077	44,752	55,137	107,198	81,179
Uruguay	47,513	0	16,200	0	28,800	0	28,000	0	77,171	0	64,003	0	39,759	59	301,387	59
Venezuela	44,213	0	15,800	0	27,200	0	45,800	0	38,700	0	71,774	0	81,664	0	325,151	0
T&T	0	0	0,000	0	22,700	0	22,700	0	15,500	0	37,791	0	48,776	20	147,447	20
Intereses	1,477		4,765		9,685		14,504		17,065		8,630		1,712		59,461	N/A
TOTAL	600,449		281,765		576,144	0	544,894	0	608,446	3,965	693,356	22,077	786,332	55,331	4,030,590	81,373

NOTE: Some differences between the amounts deposited by the States and shown by ICAO is due to transaction costs or to exchange rates.

Chart 2
Detailed Breakdown of Expenditures as of 31 December 2009

Item	2003	2004	2005	2006	2007	2008	2009	TOTAL
BL 11 Experts								
REDDIG Administrator	22.359	87.650	101.296	157.561	197.784	177.449	207.289	951.388
Experto CNS						1.504		1.504
BL 13 Adm. Support								0
13-01 Secretary	354	12.185	12.551	0	15.718	18.988	14.069	73.865
13-02 REDDIG technician		12.000	12.108	712	250		2.080	27.150
BL 15 Official missions		321	925	499				1.745
BL 16 Missions	3.504	4.110	16.733	18.642	18.357	25.718	11.789	98.853
BL 20 Sub-Contracts								0
21-01 PanAmSat (1 Oct -31 Dic 2003) P.O. 30473	62.727							62.727
21-01 PanAmSat (2004) P.O. 40670		168.849	231.264	231.264	231.264	231.264	231.264	1.325.169
21-98 Professional Responsibility Insurance		845	1.156	3.469			1.156	6.626
BL 39 Training		3.014	53.862	30.553	34.044	32.852	31.084	185.409
BL 40 Equipment								0
45-01 Spares		-12.752	59.542	36.312	71.637	34.758	122.925	312.422
45-02 Office Equipment	82		2.083	-30	0			2.135
45.03 Equipment Operation and Maintenance		1.716	1.781		0			3.497
45.04 Transfer of the NCC from ASPIM to SBMN								0
PO 40694 VIASAT		8.250						8.250
PO 40687 MEMOTEC		4.250						4.250
45.05 PO 40489 Extension of SEEE contract		50.000						50.000
45.06 PO 40090 SEEE Back-up network		24.820						24.820
45.98 Professional Liability Insurance (PLI)		444	284	246			1.092	2.066
BL 53.01 Communications,Bank charges,Courier,etc.	643	4.726	4.475	1.150	8.688	5.918	3.016	28.616
BL 53.02 PNUD Services		118	505	337	0			960
55.01 Administrative cost AOSC	6.439	28.795	35.817	34.695	34.601	33.188	50.897	224.432
TOTAL	96.108	399.341	534.382	515.410	612.343	561.639	676.661	3.395.884

Chart 3
Distribution of Expenses 2003-2009
Project RLA/03/901



APENDICE A / APPENDIX A

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL/ INTERNATIONAL CIVIL AVIATION ORGANIZATION

Revisión del Presupuesto Versión / Budget Revision Version "N"

Proyecto/Project RLA/03/901

**Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/
REDDIG Management System and Satellite Segment Administration**

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL/
INTERNATIONAL CIVIL AVIATION ORGANIZATION

Revisión del Presupuesto Versión/Budget Revision Version "N"

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

Número de Proyecto/ Project Number	RLA/03/901/ Rev. N												
Duración/Duration	5 años ajustables												
Fecha de inicio/ Beginning Date	July 2003												
Estados participantes/ Participant States	Argentina, Bolivia, Brasil, Chile, Colombia, Ecuador, Francia, Guyana, Paraguay, Peru Surinam, Trinidad y Tobago, Uruguay y Venezuela												
Agencia de ejecución/ Executing agency	ICAO												
Presupuesto total/ Total budget	US\$ 6,066,219												
Breve descripción/ Breve description	<p>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 el proyecto, y mientras se establezca dicho mecanismo multinacional, administrará temporalmente la REDDIG y conducirá implantaciones de aplicaciones en el ámbito CNS/ATM de acuerdo con los requerimientos del FASID CAR/SAM./ This project objective is to establish a multinational mechanism for the Administration of the South American Digital Network (REDDIG), considering regional developments in this matter. Likewise the project, while this multinational mechanism is established, will temporarily manage the REDDIG and will conduct the implementation of CNS/ATM application according to the CAR/SAM FASID.</p>												
	<table><tr><td>Anterior / Previous</td><td>"M"</td><td>US\$</td><td>5,446,838</td></tr><tr><td>Revisión/ Revision</td><td>"N"</td><td>US\$</td><td>6,066,219</td></tr><tr><td>Variación/ Variation</td><td></td><td>US\$</td><td>619,381</td></tr></table>	Anterior / Previous	"M"	US\$	5,446,838	Revisión/ Revision	"N"	US\$	6,066,219	Variación/ Variation		US\$	619,381
Anterior / Previous	"M"	US\$	5,446,838										
Revisión/ Revision	"N"	US\$	6,066,219										
Variación/ Variation		US\$	619,381										
Razones para la revisión/ Reasons for the revision	<p>Ajustar las cifras del año 2009 con los gastos reales y actualizar el presupuesto del año 2010 al 2012. Extender la duración del proyecto por un año adicional. Incluir las contribuciones de COCESNA en el marco de los servicios prestados por REDDIG para la interconexión con la red MEVA II. /Adjust 2009 figures with actual expenses and to update budget for years 2010 to 2012. To extend the duration of project for an additional year. To include COCESNA contributions for REDDIG interconnection services to MEVA II.</p>												

PRESUPUESTO DEL PROYECTO
(en U.S. Dolares)

Estados Regional para CAR y SAM

Proyecto RLA/03/901/ Rev. N

Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

	TOTAL	*-----	2003	-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	
	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	Personal del proyecto																					
11	Profesionales internacionales																					
11.01	Administrador de la Red	1,676,633	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	240,000	12.0	240,000	12.0	240,000
11.51	Aspectos Institucionales													1,504								
11.97	Consultores	-4,799				(6,303)																
11.99	Sub-Total	1,671,834	2.5	22,359	12.0	87,650	12.0	101,296	12.0	156,503	12.0	197,784	12.0	178,953	12.0	207,289	12.0	240,000	12.0	240,000	12.0	240,000
13	Personal de soporte Administrativo																					
13-01	Secretaría bilingüe	141,598		354	6.0	12,185	6.0	12,551		711	6.0	15,968	6.0	11,471		14,069		25,000		25,000		25,000
13-02	Técnico REDDIG	26,899			12.0	12,000	12.0	12,108								2,080						
13-03	Técnico REDDIG Manaos																					
13-04	Secretaría bilingüe (liquidación)													7,517								
13.99	Sub-Total	176,014		354	18	24,185		24,659		711		15,968		18,988		16,149		25,000		25,000		25,000
15	Viajes Oficiales	1,745				321		925		499												
16	Costo de Misiones	173,852		3,504		4,110		16,732		18,642		18,357		25,718		11,789		25,000		25,000		25,000
19	Total del Componente	2,023,444		26,217		116,266		143,612		176,355		232,109		223,659		235,226		290,000		290,000		290,000
20	Sub-Contratos																					
21.01	Alquiler del segmento satelital (P.O. 40670)																					
	P.O. 304731 (1 Oct 2003 to 31 Dic 2003)	62,727		62,727																		
	P.O. 40670 (1 Jan 2005 to 31 Dic 2008)	2,297,961				168,849		231,264		231,264		231,264		231,264		231,264						324,264
21.02	Netwok Access	99,396																				33,132
21.03	MEVA/REDDIG Recurrent Brazil	8,820																				2,940
21.04	MEVA/REDDIG Recurrent Caracas	30,384																				10,128
21.05	MEVA/REDDIG Recurrent Bogota	30,060																				10,020
21.06	MEVA/REDDIG Recurrent Lima	8,820																				2,940
21.98	Seguro de responsabilidad profesional	21,626				845		1,156		3,469					1,156		5,000		5,000			5,000
29	Total del Componente	2,559,794		62,727		169,694		232,420		234,733		231,264		231,264		232,420		388,424		388,424		388,424

PRESUPUESTO DEL PROYECTO
(en U.S. Dolares)

Estados Regional para CAR y SAM

Proyecto RLA/03/901/ Rev. N

Sistema de Gestión de la REDDIG y Administración del
Segmento Satelital/

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

	TOTAL	*-----	2003	'-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012
	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\$
31-100 SBMN																	2,000				
31-101 SBRF																	2,000				
31-102 SCEL																	3,000				
31-103 SKED																	3,000				
31-104 SEGU																	3,000				
31-105 SOCA																	3,000				
31-106 SYGC																	3,000				
31-107 SGAS																	6,000				
31-108 SPIM																	6,000				
31-109 SMPM																	3,000				
31-110 TTZP																	3,000				
31-111 SUMU																	3,000				
31-112 SVMI																	3,000				
31-99 Sub Total	308,062						18,611		28,277		33,238		32,852		31,084		54,000		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	10,582								2,276	806		0		0			2,500		2,500		2,500
37-98 PLI	3,215				3,014		201														
39 Total de entrenamiento	356,909				3,014		53,862		30,553		34,044		32,852		31,084		56,500		57,500		57,500

PRESUPUESTO DEL PROYECTO

(en U.S. Dolares)

Estados Regional para CAR y SAM

Proyecto RLA/03/901/ Rev. N

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

	TOTAL	*-----	2003	-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012
	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\$
40	Equipamiento Reembolso RLA/98/019 (Aduanas)	-12,752			-12,752																
45.01	Repuestos	0																			
	SAM REDDIG	355,825					45,930		17,750		6,889		20,170		115,085		50,000		50,000		50,000
	SAEZ	2,561											1,967		594						
	SLLP	6,547									3,194		3,103		250						
	SBRF-SBMN-SBCT	20,464				6,490		13,824		150											
	SCEL	48,855				3,009		1,603		-1,494					1,431		19,306		25,000		
	SKED	20,710						84		14,466		3,969			2,192						
	SEGU	7,260				1,870		2,390		2,620					380						
	SOCA	413													413						
	SYGC	2,171								268			1,603		300						
	SGAS	8,363						660		5,467			2,236								
	SPIM	0																			
	SMPM	1,350								1,350											
	TTZP	3,499										1,710		1,789							
	SUMU	36,031								36,031											
	SVMI	5,429					2,242			2,697					490						
	Sub Total	506,726		0	-12,752		59,541		36,311		71,637		34,758		122,925		69,306		75,000		50,000
45.02	Equipo para la Oficina REDDIG	10,552		82					-30								3,500		3,500		3,500
	Laptop REDDIG	1,829					1,829														
	LINDY COMPU PO 50534 SBMN	254					254														
	Sub Total	12,635		82	0		2,083		-30								3,500		3,500		3,500
45.03	Operación y mantenimiento de equipo de Oficina	16,716			1,716				0								5,000		5,000		5,000
	PO 50522 VIASAT Reparación Modem SYGC	1,603					1,603														
	CB LIMA	179					179														
45.04	Transferencia del NCC de SPIM a SBMN																				
	P.O. 040694 VIASAT	8,250			8,250																
	P.O. 040687 MEMOTEC	4,250			4,250																
45.05	Extensión del contrato SEEE (P.O. 40489)	50,000			50,000																
45.06	Red de respaldo SEEE (P.O. 04090)	24,820			24,820																
45.07	Equipamiento para COCESNA (Interconexión MEVA-REDDIG)	42,860															42,860				
45.98	Seguro de responsabilidad profesional	3,566			444		284		246				0		1,092		500		500		500
45.99	Sub-Total	152,244		0	89,480		2,066		246		0		0		1,092		48,360		5,500		5,500
49	Total del Componente	671,605		82	76,728		63,690		36,527		71,637		34,758		124,017		121,166		84,000		59,000
50	Varios																				
	53.01 Gastos varios	58,616		643	4,726		4,475		1,150		8,688		5,918		3,016		10,000		10,000		10,000
	53.02 Cargos del PNUD por servicios	960			118		505		337												
	53.99 Sub-Total	59,577		643	4,844		4,980		1,487		8,688		5,918		3,016		10,000		10,000		10,000
55	Costos administrativos	394,890		6,439	28,795		35,817		37,372		34,601		33,188		50,897		60,267		53,364		54,150
59	Total del Componente	454,467		7,082	33,639		40,797		38,859		43,289		39,106		53,914		70,267		63,364		64,150
	TOTAL DEL PROYECTO	6,066,219		96,108	399,341		534,381		517,027		612,343		561,640		676,661		926,356		883,288		859,074

PRESUPUESTO DEL PROYECTO
(en U.S. Dolares)

Estados Regional para CAR y SAM

Proyecto RLA/03/901/ Rev. N

Sistema de Gestión de la REDD y Administración del Segmento Satelital/

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

	TOTAL	*-----	2003	-----	2004	*-----	2005	*-----	2006	*-----	2007	*-----	2008	*-----	2009	*-----	2010	*-----	2011	*-----	2012	
	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\$	
			2003		2004		2005		2006		2007		2008		2009		2010		2011		2012	
100	COSTOS COMPARTIDOS																					
101	Costos Compartidos Gobiernos																					
101.01	Argentina	589,068	50,363	30,100	37,800	44,800	66,700	80,000	85,063	86,201	83,383	24,658										
101.02	Bolivia	344,422	39,563	22,100	28,900	33,600	10,900	43,675	52,460	48,039	48,520	16,665										
101.03	Brasil	1,009,500	123,790	72,900	79,400	111,000	60,800	81,444	118,154	137,644	142,388	81,980										
101.04	Chile	378,928	40,013	35,100	36,400	67,000	28,710	29,500	29,500	45,000	45,000	22,705										
101.05	Colombia	449,747	24,269	0	162,094	0	150,000	0	7,441	0	62,987	42,956										
101.06	Ecuador	321,053	40,913	15,200	25,500	29,100	19,000	40,865	51,589	35,000	35,000	28,886										
101.07	Francia	307,573	34,763	11,300	20,900	26,400	25,000	45,795	51,371	24,092	44,787	23,166										
101.08	Guyana	251,154	34,313	9,900	19,900	22,900	15,000	35,935	43,009	30,000	30,000	10,197										
101.09	Paraguay	329,104	35,363	12,700	21,900	30,700	25,600	46,160	53,262	47,056	44,238	12,125										
101.10	Perú	522,060	49,613	28,300	36,500	39,700	40,000	71,372	77,820	78,271	75,452	25,033										
101.11	Surinam	265,080	34,313	7,400	18,500	28,700	18,300	36,412	44,752	30,000	30,000	16,703										
101.12	Uruguay	378,064	47,513	16,200	28,800	28,000	77,171	64,003	39,759	30,000	30,000	16,618										
101.13	Venezuela	527,940	44,213	15,800	27,200	45,800	38,700	71,774	81,664	88,967	89,448	24,375										
101.14	Intereses	59,461	1,447	4,765	9,685	16,157	17,065	8,630	1,712	0	0											
101.15	Trinidad y Tobago	228,342	0	0	22,700	22,700	15,500	37,791	48,776	30,000	30,000	20,875										
101.16	COCESNA	104,725						0	0	66,339	19,193	19,193										
101.99	Sub-Total	6,066,222	600,449	281,765	576,179	546,557	608,446	693,356	786,332	776,608	810,394	386,135										
109	TOTAL DEL COMPONENTE	6,066,222	600,449	281,765	576,179	546,557	608,446	693,356	786,332	776,608	810,394	386,135										
	BL-99 - BL 109	-2	-504,341	117,576	-41,798	-29,530	3,897	-131,716	-109,671	149,748	72,894	472,939										

DISTRIBUCIÓN DEL LOS COSTOS DEL SEGMENTO SATELITAL
(en dólares US)

Proyecto RLA/03/901/ Rev. N
Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

	Costo Segmento Satelital			Total	2,004				2,005			
	AOSC	SRP	PAS		AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	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	3,469	0	234,733								
2009 USD	231,264	11,563	1,156	243,983								
2010 USD	324,264	12,500	5,000	341,764								
2011 USD	324,264	12,500	5,000	341,764								
2012 USD	324,264	12,500	5,000	341,764								
TOTAL	2,297,961	71,236	21,626	2,124,286								

	2,003				2,004				2,005			
	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL
Argentina	393	6,549	6,942	6,942	923	89	17,794	18,806	1,120	140	27,999	29,259
Bolivia	217	3,620	3,838	3,838	594	57	11,449	12,100	532	67	13,310	13,909
Brasil	342	5,695	6,037	6,037	957	92	18,453	19,502	1,225	153	30,613	31,991
Brasil	132	2,197	2,328	2,328	604	58	11,652	12,314	783	98	19,585	20,466
Brasil	261	4,353	4,614	4,614	436	42	8,410	8,888	143	18	3,565	3,726
Chile	225	3,742	3,967	3,967	872	84	16,819	17,775	671	84	16,780	17,535
Colombia	383	6,387	6,770	6,770	819	79	15,806	16,704	918	115	22,960	23,993
Ecuador	239	3,987	4,226	4,226	468	45	9,017	9,530	333	42	8,319	8,693
Francia	139	2,319	2,458	2,458	294	28	5,674	5,996	302	38	7,558	7,898
Guyana	132	2,197	2,328	2,328	257	25	4,965	5,247	179	22	4,468	4,669
Paraguay	149	2,481	2,630	2,630	332	32	6,408	6,773	472	59	11,789	12,320
Perú	381	6,346	6,727	6,727	875	84	16,870	17,829	915	114	22,865	23,894
Surinam	132	2,197	2,328	2,328	205	20	3,951	4,176	392	49	9,792	10,233
Trinidad y Tobago	0	0	0	0	0	0	0	0	0	0	0	0
Uruguay	347	5,776	6,123	6,123	588	57	11,348	11,993	367	46	9,175	9,587
Venezuela	293	4,881	5,174	5,174	531	51	10,233	10,815	899	112	22,485	23,496
	3,764	62,727	66,491	66,491	8,754	845	168,849	178,448	9,251	1,156	231,264	241,671

	2,006				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	597	0	39,797	40,394
Bolivia	304	177	11,803	12,284	204	0	13,591	13,795	167	0	11,124	11,291
Brasil	663	385	25,688	26,736	299	0	19,948	20,247	306	0	20,369	20,674
Brasil	309	180	11,976	12,465	210	0	13,968	14,177	165	0	11,020	11,185
Brasil	124	72	4,825	5,022	68	0	4,558	4,627	82	0	5,484	5,566
Chile	599	348	23,224	24,171	220	0	14,637	14,857	131	0	8,722	8,853
Colombia	520	303	20,169	20,992	354	0	23,586	23,940	253	0	16,870	17,123
Ecuador	175	102	6,769	7,045	164	0	10,915	11,079	125	0	8,356	8,482
Francia	272	158	10,553	10,984	185	0	12,337	12,522	198	0	13,214	13,412
Guyana	74	43	2,881	2,999	45	0	3,011	3,056	52	0	3,499	3,552
Paraguay	248	144	9,616	10,008	103	0	6,858	6,961	115	0	7,677	7,793
Perú	678	394	26,278	27,351	432	0	28,814	29,246	501	0	33,426	33,927
Surinam	141	82	5,485	5,709	70	0	4,684	4,754	60	0	3,969	4,029
Trinidad y Tobago	167	109	7,255	7,551	58	0	3,847	3,905	80	0	5,327	5,407
Uruguay	300	174	11,629	12,104	172	0	11,459	11,631	204	0	13,579	13,783
Venezuela	501	292	19,440	20,233	390	0	26,012	26,402	432	0	28,830	29,262
	5,966	3,469	231,264	240,699	3,469	0	231,264	234,733	3,469	0	231,264	234,733

	2,009				2010				2011			
	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL	AOSC	SRP	PAS	TOTAL
Argentina	1,725	172	34,493	36,390	1,942	777	50,372	53,090	1,942	777	50,372	53,090
Bolivia	623	62	12,458	13,143	667	267	17,294	18,227	667	267	17,294	18,227
Brasil	1,157	116	23,130	24,403	1,199	480	31,098	32,776	1,199	480	31,098	32,776
Brasil	672	67	13,432	14,171	775	310	20,107	21,192	775	310	20,107	21,192
Brasil	250	25	4,991	5,266	263	105	6,824	7,192	263	105	6,824	7,192
Chile	418	42	8,359	8,819	436	174	11,304	11,914	436	174	11,304	11,914
Colombia	864	86	17,287	18,238	829	332	21,513	22,674	829	332	21,513	22,674
Ecuador	592	59	11,646	12,287	542	217	14,064	14,823	542	217	14,064	14,823
Francia	572	57	11,443	12,073	530	212	13,752	14,494	530	212	13,752	14,494
Guyana	183	18	3,652	3,853	193	77	5,001	5,271	193	77	5,001	5,271
Paraguay	381	38	7,629	8,049	510	204	13,231	13,945	510	204	13,231	13,945
Perú	1,514	151	30,272	31,937	1,544	618	40,058	42,220	1,544	618	40,058	42,220
Surinam	264	26	5,275	5,566	341	137	8,855	9,333	341	137	8,855	9,333
Trinidad y Tobago	272	27	5,438	5,737	345	138	8,960	9,443	345	138	8,960	9,443
Uruguay	576	58	11,525	12,158	590	236	15,315	16,141	590	236	15,315	16,141
Venezuela	1,512	151	30,232	31,895	1,793	717	46,517	49,027	1,793	717	46,517	49,027
	11,563	1,156	231,264	243,983	12,500	5,000	324,264	341,764	12,500	5,000	324,264	341,764

	2012			
	AOSC	SRP	PAS	
Argentina	1,942	777	50,372	53,090
Bolivia	667	267	17,294	18,227
Brasil	1,199	480	31,098	32,776
Brasil	775	310	20,107	21,192
Brasil	263	105	6,824	7,192
Chile	436	174	11,304	11,914
Colombia	829	332	21,513	22,674
Ecuador	542	217	14,064	14,823
Francia	530	212	13,752	14,494
Guyana	193	77	5,001	5,271
Paraguay	510	204	13,231	13,945
Perú	1,544	618	40,058	42,220
Surinam	341	137	8,655	9,333
Trinidad y Tobago	345	138	8,960	9,443
Uruguay	590	236	15,315	16,141
Venezuela	1,793	717	46,517	49,027
	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)

Pais/Country: Regional para Sudamérica/Regional for South America
 Proyecto/Project: RLA/03/901/ Rev. N
 Título/Title: Sistema de Administración de la REDDIG/REDDIG Management System

	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%
	Year 1	Year 1	Year 2	Year 2	Year 3	Year 3	Year 4	Year 4	Year 5	Year 5	Year 6	Year 6	Year 7	Year 7	Year 8	Year 8	Year 9	Year 9	Year 10	Year 10
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%	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%	33.2	5.333%	33.2	5.333%
Brazil	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%	59.7	9.590%	59.7	9.590%
Brazil	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%	38.6	6.201%	38.6	6.201%
Brazil	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%	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%	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%	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%	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%	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%	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%	25.4	4.080%	25.4	4.080%
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%	76.9	12.353%	76.9	12.353%
Surinam	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%	17.0	2.731%	17.0	2.731%
Trinidad & Tobago							20.9	3.137%	9.2	1.664%	10.2	2.304%	13.4	2.351%	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%	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%	89.3	14.345%	89.3	14.345%
	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%	622.50	100%	622.50	100%

**DISTRIBUCION PORCENTUAL DE USO DEL SEGMENTO SATELITAL/
PERCENTUAL DISTRIBUTION OF THE USE OF THE SATELLITE SEGMENT**

(En Dólares EE.UU./In US Dollars)

Pais/Country: Regional para Sudamérica/Regional for South America
 Proyecto/Project: RLA/03/901/ Rev. N
 Título/Title: Sistema de Administración de la REDDIG/REDDIG Management System

	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%	BW	%
	Year 1	Year 1	Year 2	Year 2	Year 3	Year 3	Year 4	Year 4	Year 5	Year 5	Year 6	Year 6	Year 7	Year 7	Year 8	Year 8	Year 9	Year 9	Year 10	Year 10
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%	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%	33.2	5.333%	33.2	5.333%
Brazil	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%	59.7	9.590%	59.7	9.590%
Brazil	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%	38.6	6.201%	38.6	6.201%
Brazil	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%	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%	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%	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%	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%	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%	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%	25.4	4.080%	25.4	4.080%
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%	76.9	12.353%	76.9	12.353%
Surinam	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%	17.0	2.731%	17.0	2.731%
Trinidad & Tobago							20.9	3.137%	9.2	1.664%	10.2	2.304%	13.4	2.351%	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%	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%	89.3	14.345%	89.3	14.345%
	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%	622.50	100%	622.50	100%

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
(in US dollars)

81,664

Estados Regional for CAR/SAM
Proyecto RLA/03/901/ Rev. N

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Dia	Monto	Situación		
						Total por pagar	Depositado	Saldo
101-01	Argentina	2003	Julio	01	50,363		50,363	0
		2004	Julio	01	30,100		30,100	0
		2005	Julio	01	37,800		37,800	0
		2006	Julio	01	44,800		44,800	0
		2007	Julio	01	66,700		66,700	0
		2008	Julio	01	80,000		80,000	0
		2009	Julio	01	85,063		85,063	0
		2010	Julio	01	86,201		1,299	84,902
		2011	Julio	1	83,383			83,383
		2012	Julio	1	24,658			24,658
					TOTAL	589,068	396,125	192,943
101-02	Bolivia	2003	Julio	01	39,563		39,563	0
		2004	Julio	01	22,100		22,100	0
		2005	Julio	01	28,900		28,900	0
		2006	Julio	01	33,600		33,600	0
		2007	Julio	01	10,900		10,900	0
		2008	Julio	01	43,675		43,675	0
		2009	Julio	01	52,460		52,460	0
		2010	Julio	01	48,039			48,039
		2011	Julio	1	48,520			48,520
		2012	Julio	1	16,665			16,665
					TOTAL	344,422	231,198	113,224
101-03	Brasil	2003	Julio	01	123,790		123,790	0
		2004	Julio	01	72,900		72,900	0
		2005	Julio	01	79,400		79,400	0
		2006	Julio	01	111,000		111,000	0
		2007	Julio	01	60,800		60,800	0
		2008	Julio	01	81,444		81,444	0
		2009	Julio	01	118,154		118,039	115
		2010	Julio	01	137,644			137,644
		2011	Julio	1	142,388			142,388
		2012	Julio	1	81,980			81,980
					TOTAL	1,009,500	647,373	362,127

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
(in US dollars)

81,664

Estados Regional for CAR/SAM
Proyecto RLA/03/901/ Rev. N

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Dia	Monto	Situación		
						Total por pagar	Depositado	Saldo
101-04	Chile	2003	Julio	01	40,013		40,013	0
		2004	Julio	01	35,100		35,100	0
		2005	Julio	01	36,400		36,400	0
		2006	Julio	01	67,000		67,000	0
		2007	Julio	01	28,710		28,710	0
		2008	Julio	01	29,500		29,500	0
		2009	Julio	01	29,500		29,500	0
		2010	Julio	01	45,000			45,000
		2011	Julio	1	45,000			45,000
		2012	Julio	1	22,705			22,705
					TOTAL	378,928	266,223	112,705
101-05	Colombia	2003	Julio	01	24,269		24,269	0
		2004	Julio	01	0		0	0
		2005	Julio	01	162,094		162,094	0
		2006	Julio	01	0		0	0
		2007	Julio	01	150,000		150,000	0
		2008	Julio	01	0		0	0
		2009	Julio	01	7,441		7,441	0
		2010	Julio	01	0			0
		2011	Julio	1	62,987			62,987
		2012	Julio	1	42,956			42,956
					TOTAL	449,747	343,804	105,943
101-06	Ecuador	2003	Julio	01	40,913		40,913	0
		2004	Julio	01	15,200		15,200	0
		2005	Julio	01	25,500		25,500	0
		2006	Julio	01	29,100		29,100	0
		2007	Julio	01	19,000		19,000	0
		2008	Julio	01	40,865		40,865	0
		2009	Julio	01	51,589		51,589	0
		2010	Julio	01	35,000			35,000
		2011	Julio	1	35,000			35,000
		2012	Julio	1	28,886			28,886
					TOTAL	321,053	222,167	98,886

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
(in US dollars)

81,664

Estados Regional for CAR/SAM
Proyecto RLA/03/901/ Rev. N

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Dia	Monto	Situación		
						Total por pagar	Depositado	Saldo
101-07	Francia	2003	Julio	01	34,763		34,763	0
		2004	Julio	01	11,300		11,300	0
		2005	Julio	01	20,900		20,900	0
		2006	Julio	01	26,400		26,400	0
		2007	Julio	01	25,000		25,000	0
		2008	Julio	01	45,795		45,795	0
		2009	Julio	01	51,371		51,371	0
		2010	Julio	01	24,092			24,092
		2011	Julio	1	44,787			44,787
		2012	Julio	1	23,166			23,166
					TOTAL	307,573	215,529	92,044
101-08	Guyana	2003	Julio	01	34,313		34,313	0
		2004	Julio	01	9,900		9,900	0
		2005	Julio	01	19,900		19,900	0
		2006	Julio	01	22,900		22,900	0
		2007	Julio	01	15,000		15,000	0
		2008	Julio	01	35,935		35,935	0
		2009	Julio	01	43,009		43,009	0
		2010	Julio	01	30,000		17,580	12,420
		2011	Julio	1	30,000			30,000
		2012	Julio	1	10,197			10,197
					TOTAL	251,154	198,537	52,616
101-09	Paraguay	2003	Julio	01	35,363		35,363	0
		2004	Julio	01	12,700		12,700	0
		2005	Julio	01	21,900		21,900	0
		2006	Julio	01	30,700		30,700	0
		2007	Julio	01	25,600		25,600	0
		2008	Julio	01	46,160		46,160	0
		2009	Julio	01	53,262		53,262	0
		2010	Julio	01	47,056			47,056
		2011	Julio	1	44,238			44,238
		2012	Julio	1	12,125			12,125
					TOTAL	329,104	225,685	103,419

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
(in US dollars)

81,664

Estados Regional for CAR/SAM

Proyecto RLA/03/901/ Rev. N

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Dia	Monto	Situación		
						Total por pagar	Depositado	Saldo
101-10	Perú	2003	Julio	01	49,613	49,613	0	
		2004	Julio	01	28,300	28,300	0	
		2005	Julio	01	36,500	36,500	0	
		2006	Julio	01	39,700	39,700	0	
		2007	Julio	01	40,000	40,000	0	
		2008	Julio	01	71,372	71,372	0	
		2009	Julio	01	77,820	77,820	0	
		2010	Julio	01	78,271		78,271	
		2011	Julio	1	75,452		75,452	
		2012	Julio	1	25,033		25,033	
					TOTAL	522,060	343,305	178,755
101-11	Suriname	2003	Julio	01	34,313	34,313	0	
		2004	Julio	01	7,400	7,400	0	
		2005	Julio	01	18,500	18,500	0	
		2006	Julio	01	28,700	28,700	0	
		2007	Julio	01	18,300	14,335	3,965	
		2008	Julio	01	36,412	14,335	22,077	
		2009	Julio	01	44,752	-10,385	55,137	
		2010	Julio	01	30,000		30,000	
		2011	Julio	1	30,000		30,000	
		2012	Julio	1	16,703		16,703	
					TOTAL	265,080	107,198	157,882
101-12	Uruguay	2003	Julio	01	47,513	47,513	0	
		2004	Julio	01	16,200	16,200	0	
		2005	Julio	01	28,800	28,800	0	
		2006	Julio	01	28,000	28,000	0	
		2007	Julio	01	77,171	77,171	0	
		2008	Julio	01	64,003	64,003	0	
		2009	Julio	01	39,759	39,700	59	
		2010	Julio	01	30,000		30,000	
		2011	Julio	1	30,000		30,000	
		2012	Julio	1	16,618		16,618	
					TOTAL	378,064	301,387	76,677

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
(in US dollars)

81,664

Estados Regional for CAR/SAM
Proyecto RLA/03/901/ Rev. N

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Dia	Monto	Situación		
						Total por pagar	Depositado	Saldo
101-13	Venezuela	2003	Julio	01	44,213	44,213		0
		2004	Julio	01	15,800	15,800		0
		2005	Julio	01	27,200	27,200		0
		2006	Julio	01	45,800	45,800		0
		2007	Julio	01	38,700	38,700		0
		2008	Julio	01	71,774	71,774		0
		2009	Julio	01	81,664	81,664		0
		2010	Julio	01	88,967			88,967
		2011	Julio	1	89,448			89,448
		2012	Julio	1	24,375			24,375
					TOTAL	527,940	325,151	202,789
101-14	Intereses	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			1,712		1,712	
		2010			0			
		2011			0			
		2012			0			
					TOTAL	59,461	59,461	
101-15	Trinidad & Tobago	2005	Diciembre	01	22,700		22,700	0
		2006	Julio	01	22,700		22,700	0
		2007	Julio	01	15,500		15,500	0
		2008	Julio	01	37,791		37,791	0
		2009	Julio	01	48,776		48,756	20
		2010	Julio	01	30,000			30,000
		2011	Julio	1	30,000			30,000
		2012	Julio	1	20,875			20,875
					TOTAL	228,342	147,447	80,895
101-16	COCESNA	2009	Julio	1	0		0	0
		2010	Julio	1	66,339		0	66,339
		2011	Julio	1	19,193			19,193
		2012	Julio	1	19,193			19,193
						104,725	0	104,725

CALENDARIOS DE CONTRIBUCIONES DE COSTOS COMPARTIDOS
 (in US dollars)

81,664

Estados Regional for CAR/SAM
 Proyecto RLA/03/901/ Rev. N
 Título Sistema de Gestión de la REDDIG y Administración del Segmento Satelital/

Fecha de inicio : 01 Julio 2003

Fecha de finalización: 31 Diciembre 2011

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Año	Mes	Día	Monto	Situación		
						Total por pagar	Depositado	Saldo
TOTALES:						6,066,222	4,030,590	2,035,631
						total Pendiente 2009		81,373

STATE	2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		Total		Contribution pending		
	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contribution received	Contribution scheduled	Contributions received			
Dates	1-Jul-03		1-Jul-04	7/1/2005																					
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			83,383		24,658		589,068	396,125	192,943	
BOL	39,563		22,100	22,090	28,900	11,400.50 11,410.50 11,410.50 11,410.50	33,600	22,821 33,600.00	10,900	10,920		43,675	43,675	52,460	52,460	48,039		48,520		16,665		344,422	231,198	113,224	
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		61,444	81,444	118,154	118,039	137,644		142,388		61,980		1,009,500	647,373	362,127	
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	45,000		45,000		22,705		378,928	266,223	112,705	
COL	24,269	27-Nov-03 24,269	0		162,094	162,094	0		150,000	150,000	0			7,441	7,441	0		62,987		42,956		449,747	343,804	105,943	
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		28,886		321,053	222,167	98,886	
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		44,787		23,166		307,573	215,529	92,044	
GUY	34,313		9,900	07-29-04 44,203	19,900	10,006	22,900	10,278	15,000			12,480 10,189 15,374	35,935	18,355 17,043	43,009	29,118.59 17,580	30,000		13,910		30,000	10,197	251,154	198,537	52,616
PAR	35,363	6-Oct-03 42,550	12,700	5,503	21,900	18,700 3,210.00	30,700	30,700	25,600	25,600.00		46,160.00	46,160.00	53,262	53,262	47,056		44,238		12,125		329,104	225,685	103,419	
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		75,452		25,033		522,060	343,305	178,755	
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		16,703		265,080	107,198	157,882	
LURU	47,513	24 Jul-03 47,478	16,200	16,166	28,800	28,854	28,000	27,985	77,171	22,985 54,171.20		64,003	11,148 52,871	39,759	39,729	30,000		30,000		16,618		378,064	301,387	76,677	
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		89,448		24,375		527,940	325,151	202,789	
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	1,712	N/A		N/A		N/A		N/A	59,461	N/A	
T&B					22,700	40,110	22,700	5,274	15,500	15,500		37,791	37,787	48,776	48,776	30,000		30,000		20,875		228,342	147,447	80,895	
Totals	599,002	498,506	283,500	403,792	543,794	628,410	507,700	458,820	575,881	594,787		684,726	668,414	784,620	763,951	710,269		13,910	791,201	0	366,942	0	5,961,497	4,030,590	1,930,906

Cross Check 1=

0

Cross Check 2=0

0.00

0

Nodo Argentina SAEZ

	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	298,819	6,549	17,794	27,999	33,672	33,038	39,797	34,493	52,738	52,738	52,738
PLI PAS	2,460	0	89	140	505	0	0	172	777	777	777
BL 21.07	0										
BL 39	38,778	0	201	4,655	2,177	6,372	9,945	5,678	6,156	3,594	3,594
BL 49	33,573	5	5,115	3,027	1,758	431	3,408	8,882	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	18,503	180	1,339	1,759	1,505	2,185	2,770	2,945	3,172	2,648	2,648
AOSC PAS	10,006	393	923	1,120	869	496	597	1,725	1,942	1,942	1,942
	0										
Budget nodo	589,068	8,822	33,218	47,960	50,592	56,505	70,327	68,678	86,201	83,383	83,383
Cuota establecida	589,068	50,363	30,100	37,800	44,800	66,700	80,000	85,063	86,201	83,383	24,658
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	41,541	-3,118	-10,160	-5,792	10,195	9,673	16,385	0	0	-58,724

Nodo Bolivia SLLP

	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	116,678	3,620	11,449	13,310	11,803	13,591	11,124	12,458	19,661	19,661	19,661
PLI PAS	896	0	57	67	177	0	0	62	267	267	267
BL 39	17,959	0	201	4,350	2,177	2,436	0	2,045	3,156	3,594	3,594
BL 49	36,168	5	5,115	3,027	367	3,625	4,544	8,539	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	16,680	180	1,339	1,728	1,366	2,111	1,889	2,547	2,872	2,648	2,648
AOSC PAS	3,974	217	594	532	304	204	167	623	667	667	667
	0										
Budget nodo	344,422	5,717	26,512	32,274	26,299	35,951	31,533	41,057	48,039	48,520	48,520
Cuota establecida	344,422	39,563	22,100	28,900	33,600	10,900	43,675	52,460	48,039	48,520	16,665
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	33,846	-4,412	-3,374	7,301	-25,051	12,142	11,403	0	0	-31,854

Nodo Brasil Curitiba SBCT											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	216,706	5,695	18,453	30,613	25,688	19,948	20,369	23,130	36,405	36,405	36,405
PLI PAS	1,705	0	92	153	385	0	0	116	480	480	480
	0										
BL 39	8,493	0	201	2,350	142	50	0	0	2,156	3,594	3,594
BL 49	37,266	5	5,115	9,517	1,372	581	1,441	8,289	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	15,844	180	1,339	2,177	1,263	1,568	1,579	2,318	2,772	2,648	2,648
AOSC PAS	7,346	342	957	1,225	663	299	306	1,157	1,199	1,199	1,199
Cuota SBCT	400,035	8,013	34,231	55,942	40,629	37,496	38,043	49,899	68,574	67,208	67,208
Nodo Brasil Manaus SBMN											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	124,043	2,197	11,652	19,585	11,976	13,968	11,020	13,432	20,107	20,107	20,107
PLI PAS	1,023	0	58	98	180	0	0	67	310	310	310
	0										
BL 39	9,914	0	201	3,771	142	50	0	0	2,156	3,594	3,594
BL 49	24,936	5	5,115	3,281	12,232	431	0	68	3,241	563	563
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	14,753	180	1,339	1,696	2,349	1,553	1,435	1,496	2,415	2,291	2,291
AOSC PAS	4,425	132	604	783	309	210	165	672	775	775	775
Cuota SBMN	291,769	4,304	27,043	39,120	38,303	31,261	26,969	30,625	47,754	46,389	46,389
Nodo Brasil Recife SBRF											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	49,834	4,353	8,410	3,565	4,825	4,558	5,484	4,991	6,824	6,824	6,824
PLI PAS	368	0	42	18	72	0	0	25	105	105	105
	0										
BL 39	8,493	0	201	2,350	142	50	0	0	2,156	3,594	3,594
BL 49	15,744	5	5,115	3,027	3,294	431	0	68	3,241	563	563
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	13,691	180	1,339	1,528	1,455	1,553	1,435	1,496	2,415	2,291	2,291
AOSC PAS	1,890	261	436	143	124	68	82	250	263	263	263
Cuota SBRF	202,695	6,589	23,617	20,537	21,028	21,711	21,350	21,720	33,754	32,389	32,389
	0										
Budget nodos Brasil	1,009,500	18,617	83,938	113,662	96,929	87,268	84,743	101,923	137,644	142,388	142,388
Cuota establecida	1,009,500	123,790	72,900	79,400	111,000	60,800	81,444	118,154	137,644	142,388	81,980
Intereses+COCESNA	30,984	289	953	1,937	3,029	3,200	1,618	321	12,439	3,599	3,599
Diferencia	0	105,173	-11,038	-34,262	14,071	-26,468	-3,299	16,231	0	0	-60,408

		Nodo Chile SCEL									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	119,624	3,742	16,819	16,780	23,224	14,637	8,722	8,359	13,670	13,670	13,670
PLI PAS	907	0	84	84	348	0	0	42	174	174	174
	0										
BL 39	10,351	0	201	3,208	142	50	0	0	3,156	3,594	3,594
BL 49	78,167	5	5,115	6,036	1,661	-1,063	1,441	9,720	26,118	29,134	4,134
BL 50	0										
	BL 53.01	3,079	43	315	298	72	543	370	189	625	625
	BL 53.02	63	0	8	34	21	0	0	0	0	0
AOSC 10%	20,120	180	1,339	1,915	1,292	1,404	1,579	2,461	4,802	5,148	2,648
AOSC PAS	4,007	225	872	671	599	220	131	418	436	436	436
	0										
Budget nodo	378,928	5,846	32,187	37,955	37,371	29,230	25,682	35,783	62,961	69,706	42,206
Cuota establecida	378,928	40,013	35,100	36,400	67,000	28,710	29,500	29,500	45,000	45,000	22,705
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	34,167	2,913	-1,555	29,629	-520	3,818	-6,283	-17,961	-24,706	-19,501

		Nodo Colombia SKED									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	190,864	6,387	15,806	22,960	20,169	23,586	16,870	17,287	33,900	33,900	33,900
PLI PAS	1,246	0	79	115	303	0	0	86	332	332	332
	0										
BL 39	14,991	0	201	2,350	3,595	50	0	2,045	3,156	3,594	3,594
BL 49	52,342	5	5,115	3,027	2,461	14,896	5,410	10,480	6,813	4,134	4,134
BL 50	0										
	BL 53.01	3,080	43	315	298	72	543	370	189	625	625
	BL 53.02	63	0	8	34	21	0	0	0	0	0
AOSC 10%	18,001	180	1,339	1,528	1,717	3,000	1,976	2,742	2,872	2,648	2,648
AOSC PAS	5,770	383	819	918	520	354	253	864	829	829	829
	0										
Budget nodo	449,747	8,649	31,116	40,159	38,869	55,870	38,318	48,287	62,506	62,987	62,987
Cuota establecida	449,747	24,269	0	162,094	0	150,000	0	7,441	0	62,987	42,956
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	15,620	-31,116	121,935	-38,869	94,130	-38,318	-40,846	-62,506	0	-20,031

		Nodo Ecuador SEGU									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	91,872	3,987	9,017	8,319	6,769	10,915	8,356	11,646	16,431	16,431	16,431
PLI PAS	680	0	45	42	102	0	0	58	217	217	217
	0										
BL 39	19,174	0	201	4,065	2,117	3,996	0	2,045	3,156	3,594	3,594
BL 49	40,282	5	5,115	4,897	6,158	3,050	1,441	8,669	6,813	4,134	4,134
BL 50	0										
	BL 53.01	3,080	43	315	298	72	543	370	189	625	625
	BL 53.02	63	0	8	34	21	0	0	0	0	0
AOSC 10%	17,214	180	1,339	1,887	1,939	2,210	1,579	2,560	2,872	2,648	2,648
AOSC PAS	3,171	239	468	333	175	164	125	582	542	542	542
	0										
Budget nodo	321,053	6,105	23,942	28,802	27,365	34,318	25,311	40,344	44,635	45,116	45,116
Cuota establecida	321,053	40,913	15,200	25,500	29,100	19,000	40,865	51,589	35,000	35,000	28,886
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	34,808	-8,742	-3,302	1,735	-15,318	15,554	11,245	-9,635	-10,116	-16,230

Nodo Francia SOCA											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	95,335	2,319	5,674	7,558	10,553	12,337	13,214	11,443	16,118	16,118	16,118
PLI PAS	706	0	28	38	158	0	0	57	212	212	212
	0										
BL 39	14,738	0	201	4,090	142	50	2,237	1,267	3,156	3,594	3,594
BL 49	29,726	5	5,115	3,027	58	431	1,441	8,702	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	15,713	180	1,339	1,702	1,131	1,553	1,803	2,486	2,872	2,648	2,648
AOSC PAS	3,023	139	294	302	272	185	198	572	530	530	530
	0										
Budget nodo	307,573	4,337	20,408	25,978	22,420	28,539	32,701	39,311	44,305	44,787	44,787
Cuota establecida	307,573	34,763	11,300	20,900	26,400	25,000	45,795	51,371	24,092	44,787	23,166
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	30,426	-9,108	-5,078	3,980	-3,539	13,094	12,060	-20,213	0	-21,621

Nodo Guyana SYGC											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	39,408	2,197	4,965	4,468	2,881	3,011	3,499	3,652	7,367	7,367	7,367
PLI PAS	263	0	25	22	43	0	0	18	77	77	77
	0										
BL 39	17,566	0	201	3,207	2,177	2,696	0	2,535	3,156	3,594	3,594
BL 49	36,796	5	5,115	4,630	3,768	698	3,044	8,589	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	16,704	180	1,339	1,774	1,706	1,844	1,739	2,601	2,872	2,648	2,648
AOSC PAS	1,308	132	257	179	74	45	52	183	193	193	193
	0										
Budget nodo	251,154	4,208	19,658	23,541	20,755	22,279	22,144	32,361	35,082	35,563	35,563
Cuota establecida	251,154	34,313	9,900	19,900	22,900	15,000	35,935	43,009	30,000	30,000	10,197
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	30,105	-9,758	-3,641	2,145	-7,279	13,791	10,648	-5,082	-5,563	-25,367

Nodo Paraguay SGAS											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	83,655	2,481	6,408	11,789	9,616	6,858	7,677	7,629	15,598	15,598	15,598
PLI PAS	681	0	32	59	144	0	0	38	204	204	204
	0										
BL 39	36,989	0	201	4,065	3,460	6,454	7,570	5,489	6,156	3,594	3,594
BL 49	38,371	5	5,115	3,027	1,414	5,898	3,677	8,289	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	18,804	180	1,339	1,700	1,599	2,740	2,560	2,867	3,172	2,648	2,648
AOSC PAS	2,820	149	332	472	248	103	115	381	510	510	510
	0										
Budget nodo	329,104	4,510	21,184	30,372	26,586	36,037	35,408	39,476	47,056	44,238	44,238
Cuota establecida	329,104	35,363	12,700	21,900	30,700	25,600	46,160	53,262	47,056	44,238	12,125
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	30,853	-8,484	-8,472	4,114	-10,437	10,752	13,786	0	0	-32,112

		Nodo Perú SPIM									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	255,600	6,346	16,870	22,865	26,278	28,814	33,426	30,272	45,364	45,364	45,364
PLI PAS	1,980	0	84	114	394	0	0	151	618	618	618
	0										
BL 39	30,535	0	201	2,350	4,426	4,300	4,081	5,427	6,156	3,594	3,594
BL 49	29,312	5	5,115	3,027	58	431	1,441	8,289	6,813	4,134	4,134
BL 50	0										
	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.01											
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	17,252	180	1,339	1,528	1,560	1,978	1,987	2,861	3,172	2,648	2,648
AOSC PAS	8,384	381	875	915	678	432	501	1,514	1,544	1,544	1,544
	0										
Budget nodo	522,060	8,606	32,240	40,060	43,500	49,938	55,245	63,297	78,271	75,452	75,452
Cuota establecida	522,060	49,613	28,300	36,500	39,700	40,000	71,372	77,820	78,271	75,452	25,033
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	41,007	-3,940	-3,560	-3,800	-9,938	16,127	14,523	0	0	-50,419

		Nodo Surinam SMPM									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	57,798	2,197	3,951	9,792	5,485	4,684	3,969	5,275	11,222	11,222	11,222
PLI PAS	450	0	20	49	82	0	0	26	137	137	137
	0										
BL 39	15,198	0	201	4,065	2,177	-232	2,237	0	3,156	3,594	3,594
BL 49	30,662	5	5,115	3,027	58	1,781	1,441	8,289	6,813	4,134	4,134
BL 50	0										
	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.01											
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	15,853	180	1,339	1,700	1,335	1,660	1,803	2,318	2,872	2,648	2,648
AOSC PAS	1,946	132	205	392	141	70	60	264	341	341	341
	0										
Budget nodo	265,080	4,208	18,588	28,285	19,384	21,946	23,318	30,955	39,145	39,626	39,626
Cuota establecida	265,080	34,313	7,400	18,500	28,700	18,300	36,412	44,752	30,000	30,000	16,703
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	30,105	-11,188	-9,785	9,316	-3,646	13,094	13,797	-9,145	-9,626	-22,922

		Nodo Piarco									
TOTAL		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	90,459	0	0	0	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	44,520	0	0	0	7,255	3,847	5,327	5,438	11,326	11,326	11,326
PLI PAS	412	0	0	0	109	0	0	27	138	138	138
	0										
BL 39	16,395	0	0	0	2,177	2,696	2,237	2,535	3,156	3,594	3,594
BL 49	27,479	0	0	2,815	58	431	3,151	10,078	6,813	4,134	4,134
BL 50	0										
	2,423	0	0	0	72	543	370	189	625	625	625
BL 53.01											
BL 53.02	21	0	0	0	21	0	0	0	0	0	0
AOSC 10%	13,678	0	0	282	1,335	1,818	1,974	2,750	2,872	2,648	2,648
AOSC PAS	1,287	0	0	0	187	58	80	272	345	345	345
	0										
Budget nodo	228,342	0	0	3,097	21,226	22,833	26,578	35,883	39,254	39,736	39,736
Cuota establecida	228,342	0	0	22,700	22,700	15,500	37,791	48,776	30,000	30,000	20,875
Intereses+COCESNA	9,268	0	0	0	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	0	0	19,604	1,474	-7,333	11,213	12,893	-9,254	-9,736	-18,861

Nodo Uruguay SUMU											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	109,853	5,776	11,348	9,175	11,629	11,459	13,579	11,525	17,681	17,681	17,681
PLI PAS	807	0	57	46	174	0	0	58	236	236	236
	0										
BL 39	27,768	0	201	4,065	5,217	4,970	4,545	2,020	3,156	3,594	3,594
BL 49	65,343	5	5,115	3,027	58	36,462	1,441	8,289	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	20,579	180	1,339	1,700	1,639	5,648	2,033	2,520	2,872	2,648	2,648
AOSC PAS	3,734	347	588	367	300	172	204	576	590	590	590
	0										
Budget nodo	378,064	8,002	26,404	27,640	29,123	72,694	35,611	39,770	45,952	46,434	46,434
Cuota establecida	378,064	47,513	16,200	28,800	28,000	77,171	64,003	39,759	30,000	30,000	16,618
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	39,511	-10,204	1,160	-1,123	4,477	28,392	-11	-15,952	-16,434	-29,816

Nodo Venezuela SVM											
	TOTAL	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	109,532	1,748	7,751	9,574	11,022	14,507	13,979	14,702	18,125	18,125	18,125
BL 21.01PAS	260,136	4,881	10,233	22,485	19,440	26,012	28,830	30,232	59,011	59,011	59,011
PLI PAS	2,041	0	51	112	292	0	0	151	717	717	717
	0										
BL 39	12,065	0	201	4,922	142	50	0	0	3,156	3,594	3,594
BL 49	36,441	5	5,115	5,269	1,758	3,128	1,441	8,779	6,813	4,134	4,134
BL 50	0										
BL 53.01	3,080	43	315	298	72	543	370	189	625	625	625
BL 53.02	63	0	8	34	21	0	0	0	0	0	0
AOSC 10%	16,118	180	1,339	2,010	1,302	1,823	1,579	2,367	2,872	2,648	2,648
AOSC PAS	8,145	293	531	899	501	390	432	1,512	1,793	1,793	1,793
	0										
Budget nodo	527,940	7,054	25,227	44,958	33,540	45,386	46,091	57,823	88,967	89,448	89,448
Cuota establecida	527,940	44,213	15,800	27,200	45,800	38,700	71,774	81,664	88,967	89,448	24,375
Intereses+COCESNA	10,328	96	318	646	1,010	1,067	539	107	4,146	1,200	1,200
Diferencia	0	37,159	-9,427	-17,758	12,260	-6,686	25,683	23,841	0	0	-65,073

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Revisión	394,890	6,439	28,795	35,817	37,372	34,601	33,188	50,897	60,267	53,364	54,150
AOSC	394,890	6,461	28,840	35,863	30,457	38,117	33,188	50,897	60,267	56,650	54,150
Diferencia	0	-22	-45	-46	6,915	-3,516	0	0	0	-3,286	0
AOSC PAS	83,735	3,764	8,755	9,250	5,965	3,469	3,469	11,563	12,500	12,500	12,500
Check = 0	0										
AOSC 10%=	311,155	2,697	20,085	26,613	24,492	34,648	29,719	39,334	47,767	44,150	41,650
Total AOSC	394,890	6,461	28,840	35,863	30,457	38,117	33,188	50,897	60,267	56,650	54,150
Sumatoria Diferencias	0	504,321	-117,622	41,752	36,441	-7,413	131,717	109,671	-149,748	-76,180	-472,939

Sumatoria Cuotas +
Interes 6,066,222
Total Budget 6,066,219
Check = 0 2

	TOTAL	TOTALES									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Qty Nodos		15	15	15	16	16	16	16	16	16	16
BL 19	2,023,444	26,217	116,266	143,612	176,355	232,109	223,659	235,226	290,000	290,000	290,000
BL 21.01PAS	2,538,168	62,727	168,849	231,264	231,264	231,264	231,264	231,264	383,424	383,424	383,424
PLI PAS	21,626	0	845	1,156	3,469	0	0	1,156	5,000	5,000	5,000
BL 39	356,909	0	3,014	53,863	30,552	34,044	32,852	31,084	56,500	57,500	57,500
BL 49	671,609	82	76,728	63,688	36,533	71,637	34,758	124,017	121,166	84,000	59,000
BL 50	0										
BL 53.01	58,616	643	4,726	4,475	1,150	8,688	5,918	3,016	10,000	10,000	10,000
BL 53.02	960	0	118	505	337	0	0	0	0	0	0
AOSC 10%	311,155	2,697	20,085	26,613	24,492	34,648	29,719	39,334	47,767	44,150	41,650
AOSC PAS	83,735	3,764	8,755	9,250	5,965	3,469	3,469	11,563	12,500	12,500	12,500
AOSC TOTAL	394,890	6,461	28,840	35,863	30,457	38,117	33,188	50,897	60,267	56,650	54,150
Budget	5,902,036	94,681	394,622	524,742	493,959	598,794	553,009	674,949	860,017	867,381	839,881
Intereses+ COCESNA	164,186	1,447	4,765	9,685	16,157	17,065	8,630	1,712	66,339	19,193	19,193
TOTAL in	6,066,222	96,128	399,387	534,427	510,116	615,859	561,639	676,661	926,356	886,574	859,074
TOTAL	6,066,224	96,130	399,386	534,426	510,117	615,859	561,639	676,661	926,356	886,574	859,074
Check =0	4	22	45	45	-6,909	3,516	0	0	0	3,286	0
Check =0	-2	-3	1	1	-2	0	0	0	0	0	0

2003	96,108
2004	399,341
2005	534,381
2006	517,027
2007	612,343
2008	561,640
2009	676,661

Total expenses	3,397,501
Contributions Totals	4,030,590
Balance	633,089
Contributions due	81,373
Total balance including due contributions	714,462

Agenda Item 5: Annual Project Report

5.1 Following guidelines in Project RLA/03/901 Project Document, Section H, the Project annual monitoring report was reviewed (March 2009 – February 2010 period) according to a form containing basic information on the Project (project number, beginning date, termination date, budget and period covered by the report); a section for a numeric assessment; a section for a descriptive evaluation, mainly on the main success, the initial success proofs, topics and problems, recommendations, and lessons learned; and a third part, consisting of synoptical chart of the project, divided into two sections: one, informing on resources and expenses, and the other, highlighting on the progress made towards the achievement of the results expected.

5.2 The result of this annual evaluation is presented in **Appendix A** to this part of the Report.

APPENDIX A**PROJECT RLA/03/901 ANNUAL REPORT****PROJECT BASIC INFORMATION**

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

Institution in charge: ICAO

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

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

Total budget (dollars):
Initial amount: 1,958,200.00
Last approved revision: 5,446,838.00

Period covered by the report: May 2009 to February 2010

PART I: NUMERICAL RATING

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

1 – Extremely satisfactory

2 – Satisfactory

3 – Unsatisfactory, with some positive elements

4 – Unsatisfactory

X – Not applicable

Please give your answers in the corresponding column:

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

SUSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN
<p>(Indicator 1)</p> <p>The States of the SAM region will have a proposal that is harmonic with their interest for the establishment of a multinational mechanism for the REDDIG management.</p>		2		2											
<p>(Indicator 2)</p> <p>Adequate administration of the REDDIG under the direct management of the project.</p>		1		1											
<p>(Indicator 3)</p> <p>Elaborate, in coordination with the States, a plan of action for the implementation of the CNS/ATM applications on the REDDIG platform.</p>		1		1											
2. Rate the achievement of the project results.		2		2						2				2	
3. Are the management mechanisms of the project adequate?		1		2						2				2	
4. Are the project resources (financial, physical and human) sufficient with respect to:		2		2						2					
a) Quantity?		2		2										2	
b) Quality?		2		2										2	
5. Are the project resources being used efficiently to produce planned results?		1		1						1				2	

SUSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN
6. Is the project effective in relation to costs in comparison with similar programs or projects?		1		1						2				1	
7. On the basis of your work plan, how would you rate the opportunity degree of the project regarding:										2					
a) Achievement of products and initial results?		2		1										2	
b) Supplies delivery?		2		1										3	
GLOBAL RATING OF THE PROJECT		1		1						2					

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

During the last year, REDDIG management has continued to operate efficiently, providing the State members with a reliable communications network, covering their aeronautical services needs and timely supplying the necessary logistical support for the provision of spare parts and the repair of equipment of the network nodes. Two courses were given on Introduction to Satellite Communications and REDDIG Operations, one for English-speaking REDDIG member States/Territories, dictated in Paramaribo, Suriname, and the other, for Spanish-speaking REDDIG member States, in Maiquetia, Venezuela. Also, the Third Technical/Operative Meeting was carried out in Paramaribo and Maiquetia. Three new circuits were programmed, two for the performance of AMHS trials between Lima REDDIG Node and Bogota REDDIG Node, another between Santiago Node and Lima Node, and a circuit between Ezeiza REDDIG Node and Montevideo REDDIG Node for the exchange of radar data. Likewise, the backup network for Trinidad & Tobago REDDIG Node was implemented, that in case of failure, has the Lima Node as backup.

PART II: DESCRIPTIVE EVALUATION

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

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

1.2 Facility to introduce new circuits without problems (Lima –Bogotá , Lima –Santiago) for the transport of AMHS application and Ezeiza –Montevideo circuit for AMHS for exchange of radar data.

1.3 Two courses on Satellite Communications and REDDIG Station, as well as two technical-operative meetings, were carried out.

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

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

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

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

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

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

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

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

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

4.3 For this reason, REDDIG Administration proceeded buying a lot of spare parts for FRAD equipment, series CX950 and power supplies for MODEM Linkway 2100 equipments, with the aim of guaranteeing current availability of REDDIG operations for the next three years.

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

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

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

6.1 The States members joining in a regional cooperation model, may obtain benefits (i.e., ease on implementation of new circuits, savings in telecommunication services costs, training, spare parts access, 24 hours x 7 x 365 days service).

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

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

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

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

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

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

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

The project has provided relevant services to the operational applications it serves. The requirements for additional bandwidth for the support of new applications have to be analyzed and discussed with accurate criteria, in order to maintain the quality and efficiency in the services provided, in return with an appropriate and correct sized cost.

By ICAO:	
Name:	Date:
Charge:	
Signature:	
By Argentina:	
Name: Gustavo A. Chiri	Date: March 10, 2010
Charge: Chief of Planning Division – CNS	
Signature:	
By Bolivia:	
Name: Jorge Mauricio Motta	Date: March 10, 2010
Charge: Technical Coordinator	
Signature:	
By Brazil:	
Name:	Date:
Charge:	
Signature:	
By Chile:	
Name:	Date:
Charge:	
Signature:	
By Colombia:	
Name:	Date:
Charge:	
Signature:	
By Ecuador:	
Name:	Date:
Charge:	
Signature:	
By France:	
Name:	Date:
Charge:	
Signature:	
By Guyana:	
Name:	Date:
Charge:	
Signature:	
By Paraguay:	
Name: Aníbal Enrique Báez	Date: March 10, 2010
Charge: U.P.C.T. Coordinator	
Signature:	
By Perú:	
Name:	Date:
Charge:	
Signature:	

By Suriname: Name: Charge: Signature:	Date:
By Trinidad & Tobago: Name: Charge: Signature:	
By Uruguay: Name: Miguel A. Carb Charge: Chief of Communications Department Signature:	Date: March 10, 2010
By Venezuela: Name: Charge: Signature:	Date:

PART III: Synoptical chart of the Project

Title and number of the Project:	RLA/03/901 REDDIG Management System and Satellite Segment Administration	Management dispositions:	
Institution in charge:	ICAO	Period covered:	January 2010
FINANCIAL SUMMARY			
Source of funds (thousand dollars)	Total budget year 2009 (thousand dollars)	Total expenditure year 2009 (thousand dollars)	Execution rate %
Participation in the expenditures of the project:			
Argentina	396,125		
Bolivia	231,198		
Brazil	647,373		
Chile	266,223		
Colombia	343,084		
Ecuador	222,167		
Francia	215,529		
Guyana	198,537		
Paraguay	225,685		
Peru	343,305		
Surinam	107,198		
Uruguay	301,387		
Venezuela	325,151		
Interests	59,461		
Trinidad & Tobago	147,447		
	983	677	68.9 %

SUMMARY OF THE RESULTS		
Objective of programme support or immediate objectives	INDICATORS	ACHIEVEMENTS
<p>Immediate Objective # 1 To support the States of the SAM Region in the creation, as earliest possible, of a multinational mechanism for the definite administration of the REDDIG, in harmony with studies and to the identification and validation of multinational services/installations by GREPECAS</p>	<p>The States of the SAM region will arrange a multinational mechanism for the REDDIG administration</p>	<p>For the implementation of the OMR, a diplomatic conference was carried out, in which the Constitutive Agreement of the South American Air Navigation and Safety Organization, was approved. Three States of the Region: Chile, Paraguay and Uruguay have signed the agreement, same which is open for signature by other States of the ICAO South American Region, in the Ministry of Foreign Affairs of Brazil, until June 30, 2010, and later at the ICAO headquarters until its entry in force.</p> <p>This activity is not being executed by the REDDIG Project.</p>
<p>Immediate Objective # 2 REDDIG Management</p>	<p>Adequate operation of the REDDIG</p>	<p>The REDDIG Administration maintained the operation of the network with the same reliability and without interruptions up to date.</p>
<p>Immediate Objective # 3 Development of CNS/ATN applications in the REDDIG, in coordination with the RLA/98/003 project activities on Transition to the CNS/ATM Systems in the CAR/SAM Regions.</p>	<p>Implementation of at least one type of CNS/ATM application in the REDDIG platform</p>	<p>A document with AMHS systems technical specifications has been elaborated to test the AMHS systems interconnection.</p>

OBJECTIVE 1		
Develop a proposal for the creation of a multinational mechanism for the REDDIG final administration, considering the studies that in this regard, will be conducted by GREPECAS.		
Note: This activity will no longer be carried out within REDDIG Project, but in Task Force on GREPECAS Institutional Aspects.		
Annual product goals	Products achievements	Products goals proposed for next years
1.1 Analysis of the multinational possible mechanisms to provide air navigation services in order to define an arrangement for the REDDIG Administration.	Several multinational mechanisms to provide air navigation services were analyzed. In this respect, it was determined that the South American Air Navigation and Safety Organization, will be the most appropriate mechanism to define the REDDIG Administration arrangement, as well as of other air navigation and safety services.	Initial activation of South American Air Navigation and Safety Organization.
1.2 Proposal for the establishment of a multinational mechanism for the REDDIG Administration, elaborated.	South American Air Navigation and Safety Organization	Activation of South American Air Navigation and Safety Organization, through an ICAO Technical Cooperation Project.
1.3 Proposal on the definite multinational mechanism for the REDDIG Administration, approved.	South American Air Navigation and Safety Organization	Activation of South American Air Navigation and Safety Organization, through an ICAO Technical Cooperation Project.
1.4 Arrangements for the activation of the multinational mechanism for the REDDIG administration, prepared	South American Air Navigation and Safety Organization	Activation of South American Air Navigation and Safety Organization, through an ICAO Technical Cooperation Project.

OBJECTIVE 2 REDDIG Administration		
Annual product goals	Product achievement	Products goals proposed for next year
2.1 Operation of the REDDIG administered by the project for a period of two years	Continue with same efficiency REDDIG administration has been working with. Due that solution consisting in managing REDDIG under a multinational organism (South American Air Navigation and Safety Organization) is not implemented yet, ICAO will continue managing it.	Probable implementation of South American Air Navigation and Safety Organization in late 2011.
2.2 REDDIG budget approved	REDDIG Project budget for 2010.	Project budget approval for 2010.
2.3 Satellite segment rented	Renewal for three more years for bandwidth with Intelsat provider, from January 1 st 2009 to December 31 st 2011.	Plan for the provision of bandwidth increase

<p>OBJECTIVE 3 In correspondence to the FASID CAR/SAM requirements and in coordination with project RLA/98/003, plan the regional development of CNS/ATM applications and implement those applications.</p>		
<p>Annual product goals</p>	<p>Product achievements</p>	<p>Products goals proposed for next year</p>
<p>3.1 CNS/ATAM applications, identified.</p>	<p>AMHS systems interconnection between Argentina and Brazil</p>	<p>AMHS systems interconnection between Ezeiza and Asuncion, implemented.</p>
<p>3.2 Plan for the implementation of the CNS/ATM applications, approved</p>		
<p>3.3 CNS/ATM applications for the fix service implemented in the REDDIG platform.</p>	<p>Implementation of AMHS circuits between Ezeiza and Asuncion, Lima-Bogota, and Lima-Santiago.</p>	<p>Implementation of AMHS circuits between Ezeiza and Asuncion, Lima-Bogota, and Lima-Santiago.</p>

Agenda Item 6: Other matters

Nil