



INTERNATIONAL CIVIL AVIATION ORGANIZATION

South American Regional Office

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

Twelfth Meeting of the Coordination Committee (RCC/12)

FINAL REPORT

(Lima, Peru, 9 – 10 March 2009)

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HISTORY OF THE MEETING

1. PLACE AND DURATION OF THE MEETING

The Twelfth 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 2009.

2. OPENING

Mr. José Miguel Ceppi, 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, Mr. Eliseo Salcedo Mitrani, Director of Aeronautical Security, DGAC, inaugurated the meeting.

3. WORKING LANGUAGES

The meeting working languages for the discussions and documentation were Spanish and English.

4. PARTICIPANTS AND ORGANIZATION

The meeting counted with the assistance of 6 member States (Argentina, Brazil, Chile, Paraguay, Peru and Venezuela), and one international organization, COCESNA, making a total of 20 participants, including ICAO officers. The list of participants is being presented in page iii-1.

Mr. Oscar Quesada, Flight Safety Regional Officer and former Regional Coordinator, Technical Cooperation, ICAO South American Regional Office, acted as Secretary, assisted by Mr. Onofrio Smarrelli, Communications, Navigation and Surveillance (CNS) Regional Officer and Mr. Luis Alejos, Administrator of the REDDIG.

5. LIST OF CONCLUSIONS OF THE RCC/10 MEETING

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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	Dirección de Comunicaciones Comando de Regiones Aéreas (CRA)
Obdulio Omar Gouarnalusse Jefe División Ejecución y Control de Proyecto	Comando de Regiones Aéreas (CRA)
BRASIL / BRAZIL	
Athayde Licério Vieira Frauche Coordinador de la REDDIG	DECEA
Jorge Mauricio Motta Coordinador Técnico REDDIG	CINDACTA IV
CHILE	
Guillermo Garcés Valenzuela Delegado DGAC - REDDIG	Dirección General de Aeronáutica Civil (DGAC)
Juan Alejandro González Silva	Dirección General de Aeronáutica Civil (DGAC)
PARAGUAY	
Aldo Pereira Técnico en Comunicaciones	Dirección Nacional de Aeronáutica Civil (DINAC)
Gustavo Báez Jefe de Sistemas de Control	Dirección Nacional de Aeronáutica Civil (DINAC)
Aníbal Báez Argaña Coordinador Nacional de Proyectos de Cooperación Técnica	Dirección Nacional de Aeronáutica Civil (DINAC)
PERÚ / PERU	
Ing. Paulo Vila Millones Inspector de Navegación Aérea CNS	Dirección General de Aeronáutica Civil (DGAC)
Ing. Jorge García Villalobos Coordinador Técnico de Mantenimiento	CORPAC S.A.
Ing. José Luis Paredes Dávila Jefe Área Sistema de Comunicaciones	CORPAC S.A.

STATE / ESTADO INTERNATIONAL ORGANIZATION / ORGANIZACIÓN INTERNACIONAL NAME / NOMBRE POST / PUESTO	ADDRESS / DIRECCIÓN TELEPHONE / TELÉFONO FAX E-MAIL
VENEZUELA	
Luis E. Escobar Jefe Telecomunicaciones Aeropuerto Maiquetía	Instituto Nacional de Aeronáutica Civil (INAC)
Sra. Orama Guillén Especialista en la Red	Instituto Nacional de Aeronáutica Civil (INAC)
Sr. Jhoan Guillén	Instituto Nacional de Aeronáutica Civil (INAC)
Sr. Florentino Pérez Jefe de Mantenimiento Aeronáutico Nacional CNS	Instituto Nacional de Aeronáutica Civil (INAC)
COCESNA	
Ing. Roger Pérez Gerente de Estación en Honduras	
OACI / ICAO	
Oscar Quesada Coordinador Regional de Cooperación Técnica	Oficina Regional Sudamericana
Onofrio Smarrelli Especialista Regional en Comunicaciones, Navegación y Vigilancia	Oficina Regional Sudamericana
Luis Alejos Administrador de la REDDIG	REDDIG

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

1.1 Under this Agenda Item, the Meeting took note of the results of the eleventh meeting of the REDDIG Coordination Committee (RCC/11), carried out in Lima, Peru, from May 5 to 6, 2008, with the attendance of 11 States of the Region, ten member States (Argentina, Brazil, Chile, Ecuador, Guyana, Paraguay, Peru, Trinidad & Tobago, Uruguay and Venezuela) and one non member (Panama), totalling 22 participants, including ICAO staff.

1.2 REDDIG RCC/11 meeting analyzed the RCC/10 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.

1.4 As follow-up to Conclusion RCC 11/1 - *Action plans for the implementation of REDDIG pending backup circuits*, the Meeting took note that only Chile, French Guiana and Trinidad & Tobago had informed on their implementation plans for a back-up circuit in the event of a node failure. The remaining REDDIG members who had the implementation of the back-up circuit pending, and had not informed of their corresponding plans in accordance with indications in Conclusion 11/1, will not count with back-up circuits through REDDIG. Therefore, Conclusion RCC 11/1 is considered completed.

1.5 The Meeting, upon analyzing Conclusion RCC 11/2 - *Actions for the ATN Task Force addressed to provide orientation to States presently implementing ATN applications based in IP protocol*, took note that an IP addressing plan (version 4) had been elaborated, which had been presented at the Sixth Meeting of the ATM/CNS Subgroup CNS Committee (CNS/COMM/6). Its review for its further implementation is scheduled to take place during the fifth meeting of the ATN Task Force (ATN/TF/5), to be held in Mexico City from 12 to 13 June 2009. With regard to the IP addressing plan elaborated, it should be highlighted that the SAM Region will adopt IP addresses for intra-regional links, through REDDIG. Therefore, Conclusion RCC 11/2 is considered completed.

APPENDIX A

CONCLUSIONS IN FORCE ADOPTED BY THE RCC AND STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC 8/8	REDDIG Administration	That, while the institutional aspects related to the administration of multinational systems for the provision of air navigation services can be more clearly defined, the States agree that the REDDIG administration for the following two years, starting 15 October 2005, continue to be under the mechanism of ICAO technical cooperation, as an extension of regional project RLA/03/901.	Valid	REDDIG Administration has been prolonged up to 31 December 2010, date in which it is expected that the OMR is implemented.
RCC 9/1	Implementation of pending circuits to complete the REDDIG backup network	That Chile, Guyana, Paraguay, Suriname and Venezuela implement, as a matter of urgency, the corresponding circuits necessary to complete the REDDIG earth backup network.	Replaced by Conclusion RCC 11/1	
RCC 9/2	System for the definition and control of REDDIG NCC technical personnel qualifications	<p>That, with the aim of improving the quality of the services provided to the REDDIG Manaus and Ezeiza management nodes,</p> <p>The REDDIG Administrator develops and implements, before 30 April 2006, a system for the definition and control of qualifications of NCC human resources, on the basis of appropriate education, formation, abilities and experience.</p> <p>The administrations of Brazil and Argentina will make all efforts possible to ensure that appropriate education is provided or take other actions to satisfy the needs for proper qualification.</p>	Completed	A system for definition and control of competences of NCC human resources has been elaborated and implemented, based on education, training, abilities and appropriate experience, plus training has been provided to meet NCC qualification needs.

CONCLUSIONS IN FORCE ADOPTED BY THE RCC AND STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC 9/5	Deposit of RLA/03/901 project cost-sharing contributions	That REDDIG member States carry out as soon as possible corresponding arrangements for the deposit of their cost-sharing contributions to RLA/03/901 project before 1 July 2006.	Completed	States having pending contributions at indicated date have made respective payments.
RCC 9/7	Regional IP Addressing Plan	That the ICAO Regional Office, in coordination with the activities being carried out by ICAO and GREPECAS CNS Committee ATM/CNS Subgroup, study and propose to the States member of the REDDIG a Regional IP Addressing Plan that permits the ordered regional connection of fix aeronautical services (AMHC/AIDC) as well as others that may appear that use this network platform.	Superseded by Conclusion RCC 11/2	
RCC 10/1	Expedite logistic processes on REDDIG State members	That, in order to expedite and to facilitate follow up of spare parts import/export as well as the shipment and return of equipment for repair, the REDDIG States members: a) name a person as administrative-logistic focal point, and send this information to the ICAO South American Office before 30 April 2007, and b) investigate and study, jointly with the REDDIG Administration, mechanisms that could be applicable in order to make substantially more expedite the processes of spares and equipment import/export.	a) Completed b) Valid	All the REDDIG members have informed the name of the person acting as focal point for logistic and administrative actions. As of to date, no effective mechanism for speeding up import/export processes of equipment and spares has been implemented.

CONCLUSIONS IN FORCE ADOPTED BY THE RCC AND STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC 10/2	Creation of an Ad-Hoc group intended to prepare an integral training plan for REDDIG nodes technical personnel	Argentina, Brazil, Chile, Peru and Venezuela will conform an ad-hoc group to prepare an integral training plan for REDDIG nodes technical personnel, in accordance with the terms of reference presented in Appendix B to this part of the report.	Completed	An Ad Hoc Group was established during RCC/11, who prepared in accordance with the terms of reference, an integral training plan for the REDDIG nodes technical personnel
RCC 10/3	Extension of the duration of project RLA/03/901	That ICAO prepares for the consideration of the next REDDIG Coordination Meeting a budget revision of the project in order to extend its duration up to 31 December 2010. In case the MRO is conformed before this date, the REDDIG State members could request ICAO the transference of project RLA/03/901 resources to the MRO.	Completed	The project's budget was revised to extend until 2010 during RCC/11 meeting
RCC 10/4	Hiring of a network specialized technical support	That ICAO proceeds as soon as possible to hire in Manaus network specialized support technician with the post definitions described on Appendix B to this part of the report.	Completed	Information was provided during RCC/11 that the network technical specialist would not be hired to work on a daily basis, but according to necessity
RCC 10/6	Deposit of RLA/03/901 project cost-sharing contributions	That REDDIG member States carry out as soon as possible corresponding arrangements for the deposit of their cost-sharing contributions to RLA/03/901 project before 1 July 2007.	Completed	All REDDIG member States have deposited their cost-sharing contributions corresponding to 2007.

CONCLUSIONS IN FORCE ADOPTED BY THE RCC AND STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC 11/1	Action plans for the implementation of REDDIG pending backup circuits	That: a) The aeronautical administrations of Bolivia, Chile, Ecuador, Guyana, French Guiana, Paraguay, Suriname, Venezuela and Trinidad and Tobago study the possible technical solution to implement the backup circuit that the State could implement, taking into account local communications services suppliers that could provide and elaborate an action plan that would be sent to the ICAO Lima Regional Office before 30 July 2008; b) the REDDIG Administrator review the technical solution and the action plan for its implementation in the REDDIG; c) and, in case a State does not send the referred information, the REDDIG Administration would consider that the State had not found a possible technical solution and, therefore, it could not have a backup circuit for the REDDIG	Completed	Only Chile, French Guiana and Trinidad & Tobago have informed on their backup circuit implementation plans in the event of a failure.
RCC 11/2	Actions for the ATN Task Force addressed to provide orientation to States presently implementing ATN applications based in IP protocol	That the CNS Committee ATN Task Force of the ATM/CNS GREPECAS Subgroup, in its forthcoming meeting, study the urgent elaboration of orientation guideline for the implementation of ATN addresses based on IP and establish an initial addressing regional IP plan.	Completed	A request was made to the ATN Task Force, who elaborated in initial regional IP addressing plan
RCC 11/3	Cost-benefit research for software upgrading of Linkway system	That, REDDIG Administrator present in next meeting of REDDIG coordination committee, a working paper containing a cost-benefit research for the implementation of software upgrading of Linkway system.	Superseded by conclusion RCC 12/1	The Meeting analyzed REDDIG's current situation and formulated actions in this regard.

CONCLUSIONS IN FORCE ADOPTED BY THE RCC AND STATUS OF IMPLEMENTATION				
Conclusion	Title	Content	Status	Remarks
RCC 11/4	Activation of actions foreseen in procedure of cases of delayed deposits of cost-sharing contributions of Bolivia	Considering that Bolivia still has pending cost-sharing contributions to project RLA/03/901 for year 2007, in case that the deposit of these contributions is not received before 1 July 2008, the REDDIG Administration would proceed to the application of the actions foreseen for cases of delayed deposit of cost-sharing contributions.	Completed	Bolivia made payment of pending contributions; therefore, no actions foreseen for lack of payment cases were applied
RCC 11/5	Deposit of cost-sharing contributions to RLA/03/901 project	That REDDIG member States make as soon as possible corresponding arrangements for the deposit of their cost-sharing contributions to RLA/03/901 project before 1 July 2008.	Partially completed	All REDDIG member States have made their 2008 cost-sharing contribution deposits, with the exception of Suriname and Guyana
RCC 11/6	Revision of RLA/03/901 project budget	The budget established as RLA/03/901 project Revision L is approved, as presented in Appendix 4A to this part of the report.	Completed	RCC/11 meeting approved the RLA/03/901 project budget, through Revision L

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 2008, such as:

- a) renewal with INTELSAT of the satellite service provision contract;
- b) follow-up to the activities regarding MEVA II/REDDIG interconnection implementation;
- c) REDDIG NCC and Management Centre operation alternation;
- d) training programme;
- e) implementation of new services;
- f) logistics operations and spare parts management; and
- g) Analysis of the REDDIG equipment current situation.

Renewal with INTELSAT of the satellite service provision contract

2.3 The Meeting was informed that, taking into consideration that the satellite service provision agreement between ICAO and PanAmSat (now acquired by INTELSAT) ended in December 2008, the REDDIG Administration started coordinations with INTELSAT in April 2008 to renew said agreement and, to that end, requested a satellite segment service estimate for the same satellite band width, with a three-year duration, and under the same terms as the initial agreement.

2.4 Note was taken that INTELSAT presented an estimate considering a three-year satellite segment service for USD 231,264.00 per year, same as the initial five-year contract. Nevertheless, INTELSAT's initial position for the agreement's renewal was not to include the "exit clause", which permitted ICAO to terminate the agreement before the end of the contract.

2.5 Information was also provided that after ICAO and the REDDIG Administration made the necessary arguments to the INTELSAT executives on the inclusion of the "exit clause", the agreement was signed and the clause was kept with the term '*Special Customer Termination Right*' of "FULL-TIME AGREEMENT-SERVICE ORDER #6803 – AMENDMENT 4".

2.6 The Meeting took note that the new agreement contemplates that the service will initially be provided by the IS-1R satellite (before PAS-1R). Thereafter, this satellite will be replaced by the IS-14.

2.7 The technical characteristics in the new agreement are the same as the previous one (refer to **Appendix A** to this part of the Report).

Follow-up to the activities regarding MEVA II/REDDIG interconnection implementation

2.8 It was recalled that at the Eleventh REDDIG Coordination Committee Meeting (RCC/11) information was provided on the procedure to carry out the necessary contractual aspects for the implementation of the MEVA II / REDDIG interconnection. The process consists of two parts: the first, in a public bidding process for the purchase of the equipment necessary for MEVA II / REDDIG interconnection, and the second part, in the drafting of a service contract between ICAO and the MEVA network Service Provider, for the installation of the equipment necessary at the REDDIG nodes in Bogotá (Colombia) and Maiquetía (Venezuela), and for the recurrent costs for the provision of the services at the interconnected network.

2.9 The bidding process for the purchasing of the equipment started in May 2008. As a result, ICAO currently counts with all information regarding equipment costs (refer to **Appendix B** to this part of the Report).

2.10 With regard to the drafting of the contract between ICAO and the MEVA II Service Provider for the implementation of the MEVA II/REDDIG interconnection, the Meeting took note that an agreement has been reached between ICAO and the MEVA II Service Provider as to the clauses therein. A copy of the contract between ICAO and AGS was distributed during the Meeting.

2.11 The Meeting also took note that ICAO had elaborated, together with COCESNA, a document specifying the technical operational and administrative considerations between COCESNA and the REDDIG Administration (ICAO) for the MEVA II / REDDIG interconnection implementation, and the payment by COCESNA to REDDIG regarding recurrent services.

2.12 The contract between the MEVA II Service Provider and ICAO was subscribed at the end of March 2009. The project document on operational support to COCESNA for MEVA II / REDDIG interconnection is expected by the end of April 2009.

2.13 Taking into account the afore indicated, the Meeting took note of the new action plan for MEVA II / REDDIG interconnection, presented as **Appendix C** to this part of the Report.

REDDIG NCC and Management Centre operation alternation

2.14 From 25 September to 10 October 2008, the NCC operation and the REDDIG Administration were temporarily transferred to Ezeiza, thus providing operational training to the SAEZ node technical personnel. During this period, the operation of the NCC and the Management Centre was carried out normally. The spare part SUN equipment that had been sent from Lima was also configured at that time.

2.15 Operation of the NCC has been transferred to the SAEZ node since 8 February 2009, without any inconveniences. The operation, support and management of REDDIG have continued being carried out from Manaus, and when necessary, support has been obtained from Ezeiza, as usual.

2008 training programme

2.16 In 2008, two basic courses on the REDDIG station were dictated. The Agenda of the course is shown in **Appendix D** to part of the Report.

2.17 The first course was dictated in Georgetown, Guyana, from 25 to 29 August 2008 in the Cheddi Jagan International Airport Control Tower. The second course was dictated in Venezuela in the Instituto Nacional de Aviación Civil (INAC) ATC Building, Maiquetia, from 3 to 7 November 2008.

Implementation of new services

2.18 Information was provided on the carrying out end-to-end connectivity tests, including routing equipment, between some REDDIG nodes such as SPIM-SAEZ, SGAS-SAEZ, SVMI-SBMN. Also, that configurations were made to force double hoop satellite communications within REDDIG to test the VoIP application between the SBCT-Curitiba and SAEZ-Ezeiza nodes, passing through SBMN-Manaus.

Logistics operations and spare parts management

2.19 The Meeting was informed that logistics-related operations, mainly originated due to equipment failures, included remittance of REDDIG equipment or part of the spare parts lot from the storage in the Lima Regional Office, or from any other node having spare parts on loan, to the nodes who require them, coordination with the manufacturer for the repair of the equipment, payment for the transport of the equipment or spares, coordination and support to States for the import/export of the equipment and parts necessary at the nodes. This support also includes the purchase and transport of equipment requested by States for their respective nodes.

2.20 Note was taken that during 2008, twenty-one operations were carried out and that, to January 2009, two operations had been handled. Following is a summary of equipment and parts failure.

FRAD	Manufacturer: Memotec	
(2)	Power Supply Module	: (1) SBCT, (1) SYGC
(4)	Universal I/O Card	: (1) SYGC, (2) SGAS, (1) SCEL
(1)	Motherboard CX950	: (1) SGAS
(1)	V.35H Card	: (1) SGAS
(5)	Fast Ethernet Card	: (2) SEGU, (2) SVMI, (1) SBCT
(1)	E&M SLIM Card	: (1) SVMI
(8)	Internal Fan	: (4) SYGC, (1) SBRF, (2) SBCT, (1) SAEZ
MODEM	Manufacturer: ViaSat	
(7)	Linkway 2100	: (1) SAEZ, (1) SYGC, (2) TTZP, (2) SBMN, (1) SGAS
SSPA	Manufacturer: Paradise Datacom	
(3)	SSPA units	: (1) SKED, (1) SUMU, (1) SBRF
(11)	External Fan	: (2) SUMU, (4) SYGC, (1) SBRF, (4) TTZP
Others REDDIG		
(1)	Base Band Switch	: (1) SYGC

2.21 **Appendix E** to this part of the Report presents statistics pertaining to 2008 regarding the number of the requests for attention given to the network nodes, as well as their distribution as regards the type of equipment originating the request.

Analysis of the REDDIG equipment current situation

2.22 The Meeting was informed that the technology of the equipment composed by the REDDIG nodes, as well as the control and management centres (NCC/NMS), date to 2002 and that, currently, some REDDIG equipment, such as the FRAD and MODEM Linkway models, are starting to be commercially unavailable. An analysis was made on REDDIG equipment's current situation as regards the Linkway, FRAD RF (SSPA/NLB) and antenna systems.

ViaSat Inc. Linkway system

2.23 With respect to the current Linkway 2100 system technology, REDDIG network's central platform, information was provided that it has been efficiently operating all of its services since its start-up, and is also supporting the new IP protocol based services (AMHS, RADAR, VoIP), which have already been operationally proven within REDDIG.

2.24 With the aim of presenting pertinent recommendations to improve the Linkway system, it was informed that queries had been made regarding the continuity to manufacture the Linkway 2100 MODEM (satellite modem) and its corresponding Linkway 2100 NCC/NMS. Note was taken, through publications and information provided via web page www.viasat.com, that these products are no longer being promoted by ViaSat.

2.25 In this regard, the Meeting agreed in increasing the equipment's lot of spare parts, taking the following into consideration:

- a) the manufacturer will not continue with the development of the technology used by they Linkway 2100 system;
- b) this system has an operational life for the current and new services in the Region;
- c) the need to guarantee the operation of this equipment for a three-year minimum period; and
- d) its failure statistics.

Memotec FRAD equipment

2.26 The Meeting took note that the CX950/950e equipment has been efficiently working all its services since its start-up and, also, is supporting the new IP protocol based services (AMHS, RADAR, VoIP), which have already been operationally tried at REDDIG.

2.27 Similarly to that carried out with respect to the Linkway 2100 system, information was provided that investigations were made regarding the manufacturing continuity of the CX950e equipment and its I/O cards. Indication was provided, through publications and information in web page www.memotec.com, that as of January 2009 the products of this series are no longer commercially offered by Memotec.

2.28 The Meeting, taking into consideration that the CX950/950e equipment still counts with an operational life for the current and new services passing through the Region, and that this equipment has been discontinued, proposed to increase the spare parts lot for this equipment. The purchasing of this equipment is to be effected by 30 July 2009, since this would be the last year in which this equipment is commercially available.

Paradise Datacom RF system (SSPA/LNB equipment)

2.29 The Meeting took note that the new SSPA/LNB equipment is compatible with the transmission/reception requirements of the REDDIG stations. Nevertheless, when the new SSPA equipment is purchased, account should be given to the interoperability of the new SSPA M&C (Monitoring & Control) with the REDDIG's current RM&C system. For this, the Purchase Order must specify that the SSPA's M&C should have binary communications protocol with a 38400 Baud rate.

Antenna system

2.30 Note was taken that the antenna system can continue operating, since no changes are planned.

Actions recommended regarding the REDDIG equipment

2.31 The Meeting, after analyzing the afore mentioned topics, considered that this year (2009) only the spare parts corresponding to the FRAD MEMOTEC equipment be purchased, since the manufacturer had published that this equipment would be commercially available until July 2009.

2.32 As regards the MODEM Linkway equipment, it was considered that it be purchased in 2010. With respect to the SSPA equipment, there is no scheduling to purchase spare parts in the short-term, and the same antenna will be used.

2.33 In view of the above, it was considered convenient to elaborate a plan for a complete technology change to the current REDDIG equipment, for it to be implemented for an initial three-year period, as of 2009.

2.34 Taking into account all of the above, the Meeting formulated the following Conclusion:

Conclusión RCC/12-1 Actions to keep the operativity of REDDIG equipment of the next years

Taking into consideration that REDDIG's current equipment meets current and future services' requirements, and that the MEMOTEC FRAD and Linkway MODEM will be discontinued, it is urged that:

- a) the current REDDIG equipment is kept for a minimum initial period of three years;
- b) by 30 July 2009 REDDIG project purchases the MEMOTEC FRAD equipment presented in **Appendix F** to this Agenda Item;
- c) by 2010 the Linkway MODEM equipment spare parts listed in **Appendix G** to this Agenda Item be purchased; and
- d) the REDDIG Administration elaborates a plan for a complete technology change to the current REDDIG equipment, for its implementation within a period minimum of three years, starting 2009, taking under consideration aspects related to MEVA II / REDDI G interconnection, and that it be presented at RCC/13 meeting.



FULL-TIME AGREEMENT - SERVICE ORDER #6803 - AMENDMENT 4

	Intelsat Information:	Customer Information:
Name:	Intelsat Corporation (formerly known as PanAmSat Corporation)	International Civil Aviation Organization
Place/Type of Organization:	A Delaware corporation	An entity of the United Nations
Address:	3400 International Drive NW	999 University Street
City/Country:	Washington, DC 20008-3006	Montreal, Quebec, Canada H3C 5H7
Attention:	Contracts Administrator, Legal Department	Mr. Ruben Gallego
Telephone:	(202) 944-6800	(514) 954-8219, ext. 8010
Facsimile:	(202) 944-7529	(514) 954-6287

This "Amendment 4" modifies that certain Full-Time Agreement -- Service Order #6803 entered into between Intelsat, formerly known as PanAmSat Corporation, as successor in interest to PanAmSat International Systems, Inc. and Customer on March 22, 2002, as amended on July 26, 2002, October 10, 2003 and January 13, 2004 (the "Full-Time Agreement"), to extend the Service End Date, as set forth below. Defined terms not otherwise defined herein shall have the meanings ascribed to them in the Full-Time Agreement. This Amendment 4 shall be subject to the terms and conditions of the Full-Time Agreement. To the extent of a conflict between the terms and conditions of this Amendment 4 and the Full-Time Agreement, the terms and conditions of Amendment 4 shall control.

General Information

Agreement	Service Start Date	Service End Date	Non-Recurring Connection Fee	Service Fee	Security Deposit (Last Month)	Total Initial Payment
Service Order #6803	June 1, 2002	May 31, 2003	N/A	US\$249,660 per year	N/A	US\$249,660
Amendment 1	October 1, 2002	September 30, 2003	N/A	US\$249,660 per year	N/A	N/A
Amendment 2	October 1, 2003	December 31, 2003	N/A	US\$62,415 (Service Term)	N/A	US\$62,415
Amendment 3	January 1, 2004	December 31, 2008	N/A	See Payment Schedule Below	N/A	US\$168,849
Amendment 4	January 1, 2009	December 31, 2011	N/A	US\$231,264 per year	N/A	US\$231,264

Payment Schedule*

Months	Service Fee
January 1-2004 -- December 31, 2004	US\$168,849 per year
January 1, 2005 -- December 31, 2011	US\$231,264 per year

*Notwithstanding anything to the contrary set forth in the Master Agreement (defined below), the Service Fee for the entire year shall be paid in full on January 1 of each year. In accordance with the Payment Schedule Set forth above, Customer's next payment will be due on January 1, 2009. Customer's last payment shall be due on January 1, 2011.

Transponder Segment Service

Satellite:	IS-1R (formerly known as PAS-1R) with follow-on Service to IS-14
Planned Orbital Location:	315° East
Beam(s):	US/Latin America Beam
Band:	C-Band
Bandwidth/Circuit:	4.38 MHz (NON-PREEMPTIBLE PREMIUM CAPACITY)

This Amendment 4 is subject to, and entered into in accordance with, that certain Master Services Agreement Number 6744 entered into by and between Intelsat and Customer, dated March 8, 2002 (the "Master Agreement"), which is incorporated herein by this reference. Any references to PanAmSat in the Master Agreement and/or this Full-Time Agreement (including any Attachments hereto or thereto) shall be deemed, in context, to refer to Intelsat. By signing below, Customer confirms receipt of and agreement to this Amendment 4, which, together with Service Order #6803 and the Attachments thereto, shall upon the Execution Date (defined below) thereafter collectively comprise the Full-Time Agreement:

Attachment 1:	Transmission Parameters (attached to Amendment 2)
Attachment 2:	Service Attachment for Transponder Segment Services (attached to Service Order #6803)
Attachment 3:	Operational Requirements For Intelsat Satellites (attached to Service Order #6803)
Attachment 4:	Special Terms and Conditions (attached hereto)

Each of the parties has duly executed and delivered this Amendment 4 as of the latest date set forth below (the "Execution Date").

INTELSAT CORPORATION

By: Patricia Casey
 Name: Patricia Casey
 Title: Senior VP and Deputy General Counsel
 Date: NOVEMBER 10, 2008

INTERNATIONAL CIVIL AVIATION ORGANIZATION

By: [Signature]
 Name: Ruben Gallego
 Title: Chief, Field Procurement Section
 Date: 06 Nov 2008

APPENDIX B / APENDICE B**LIST OF EQUIPMENT TO PURCHASE THROUGH THE ICAO TCB FOR THE MEVA II /
REDDIG INTERCONNECTION /
LISTA DE EQUIPO A ADQUIRIR A TRAVES DE TCB OACI PARA LA INTERCONEXION
MEVA II / REDDIG**

LOCATION / LOCALIDAD	ADDITIONAL EQUIPMENT/PARTS NEEDED EQUIPO ADICIONAL/PARTES REQUERIDOS	QUANTITY/ CANTIDAD
COCESNA/ Tegucigalpa Honduras	ViaSat, Linkway 2100 with 1 frame-relay card and V.35 cable	1
	2-port L-band Splitter (1 port with DC block)	2
	2-port L-band Combiner (1 port with DC block)	2
Caracas/Venezuela	ViaSat, Linkway 2100 with frame-relay card and V.35 cable	1
	Memotec DAV Card (2 for MUX A, 2 for MUX B)	4
	Memotec FXS SLIM LID (3 for MUX A, 3 for MUX B)	6
	2-port L-band Splitter (1 port with DC block)	3
	2-port L-band Combiner (1 port with DC block)	3
	Paradise Datacom, Standard C-Band 75W SSPA, Internal BUC with 10 MHz External Reference	2
Bogota/Colombia	ViaSat, Linkway 2100 with 1 frame-relay card and V.35 cable	1
	Memotec DVP2 E-1 Daughter Card (1 for MPS A, 1 for MPS B)	2
	2-port L-band Splitter (1 port with DC block)	3
	2-port L-band Combiner	3
Ecuador	Memotec DVP2 E-1 Daughter Card (1 for MPS A, 1 for MPS B)	2

APPENDIX C / APENDICE C

**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 2009

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	Mar/09	Valid/Valido Is part of the Service Contract/Es parte del Contrato de Servicio

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
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 presentó 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 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.

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
	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 The ICAO Regional Offices sent to the States/Organization of MEVA II and REDDIG network in order to sign the MoU reviewed.
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

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
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 The following States sent the MoU reviewed signed/Los siguientes Estados enviaron el MoU revisado firmado: Argentina, Brasil, Chile, Cuba, COCESNA, Estados Unidos, Guyana, Peru y/and Uruguay
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	Mar/ 2009	ICAO reviewed and coordinate with AGS the contract for the provision of the interconnection of the MEVA II and REDDIG Satellite Telecommunication network. The Review contract was accepted by both parts and its signature is pending. La OACI revisó y coordinó con AGS el contrato para la provisión de la interconexión de las redes de telecomunicaciones por satélite MEVAII y REDDIG quedando pendiente la firma del mismo.

Item No.	Action / Acción	Responsible / Responsable	Completion Date / Fecha de Finalización	Status- Encountered Difficulties / Estado-Dificultades encontradas
1	2	3	4	5
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-1R, 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.

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
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	The ICAO Technical Cooperation completed the bid process in the month of May 2008. The purchase of the equipments will be made once ICAO signs the Contract for the provision of the interconnection of the MEVA II and REDDIG Satellite Telecommunication network. with AGS La Cooperación Técnica de la OACI completó el proceso de licitación para la adquisición de los equipos en mayo de 2008. La adquisición de los equipos se hará una vez que la OACI firme el contrato para la provisión de la interconexión de las redes de telecomunicaciones por satélite MEVAII y REDDIG con AGS.
17	Site survey for Bogota, Caracas and COCESNA, / Inspección sitio para Bogota, Caracas and COCESNA,	MEVA II Service Provider and REDDIG Administration / Proveedor MEVA II y Administración REDDIG	May/ 09	Site survey is considered as part of the services to be provided. El estudio de sitio se considera parte de los servicios a ser provistos.
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	
19	Delivery of purchased equipment at the required sites. / Entrega de equipamiento adquirido en los sitios requeridos	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Jul/09	

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	Jul/09	
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	Jul/09	
22	End-to-end trials for voice and data circuits / Pruebas de extremos a extremos para los circuitos de voz y datos	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Aug/09	
23	System Performance Evaluation / Evaluación de la performance del sistema	MEVA II Service Provider and REDDIG Administration / Proveedor de Servicio MEVA II y Administración REDDIG	Aug/09	
24	Service acceptance / Aceptación de los servicios /	MEVA II / REDDIG Member Administrations / Administraciones miembros de las redes MEVA II y REDDIG	Sep/09	
25	MEVA II / REDDIG Interconnection Implementation / Implantación de la interconexión MEVA II / REDDIG	MEVA II / REDDIG Member Administrations, MEVA II Service Provider and REDDIG Administrator / Administraciones miembros de las redes MEVA II y REDDIG, Proveedor Servicio MEVA II y Administración REDDIG	Sep/09	

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 D**BASIC COURSE ON REDDIG OPERATION AND MAINTENANCE****AGENDA****1.1 Network Description**

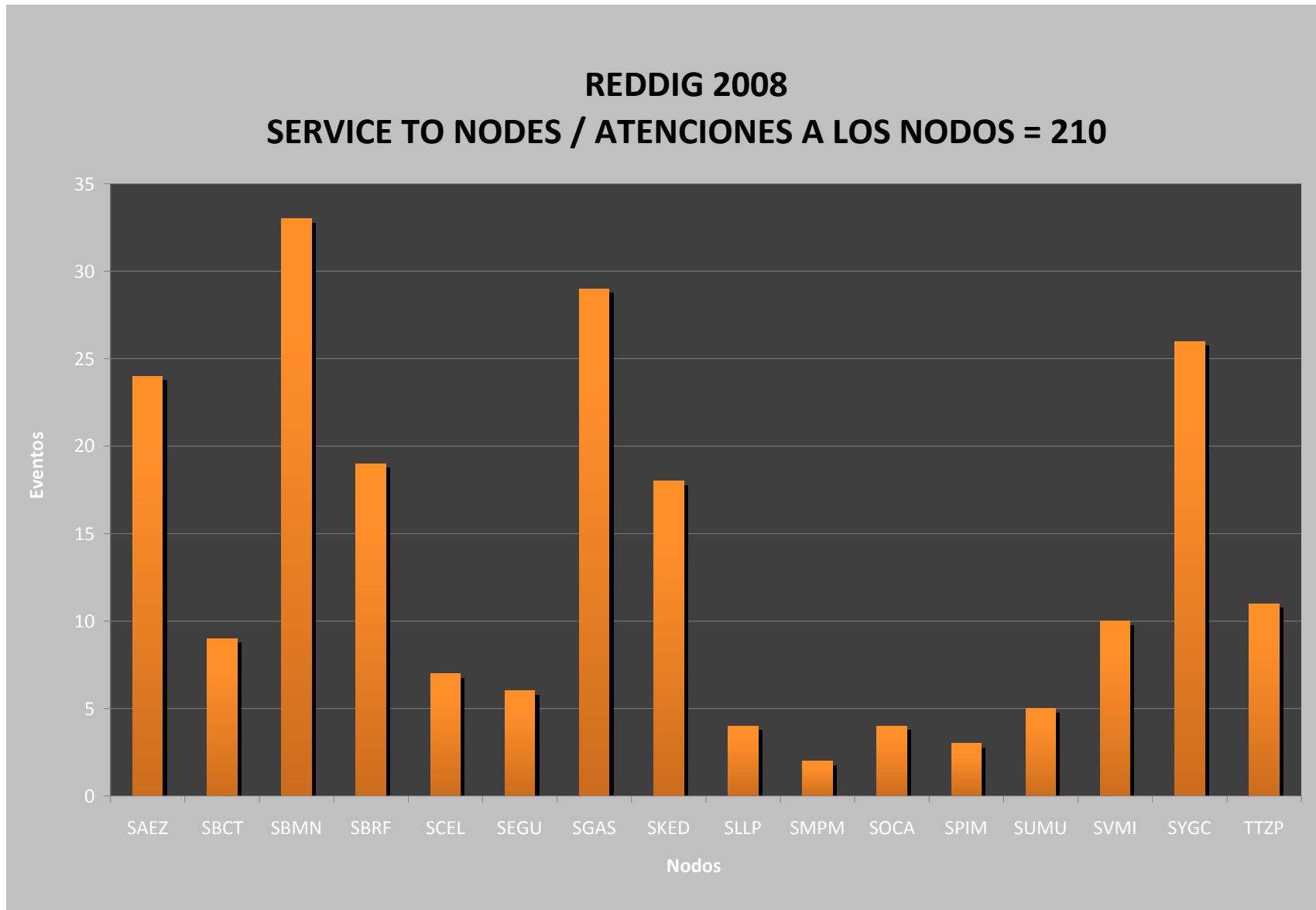
- a) Services
- b) Theory of operation
- c) Mode of operation
 - Topology
 - Frequencies plan
 - Communications Sub-network (FR based)
 - Monitoring and Control Sub-network (IP based)
- d) Control and Management Centres (NCC/NMS)
- e) REDDIG stations

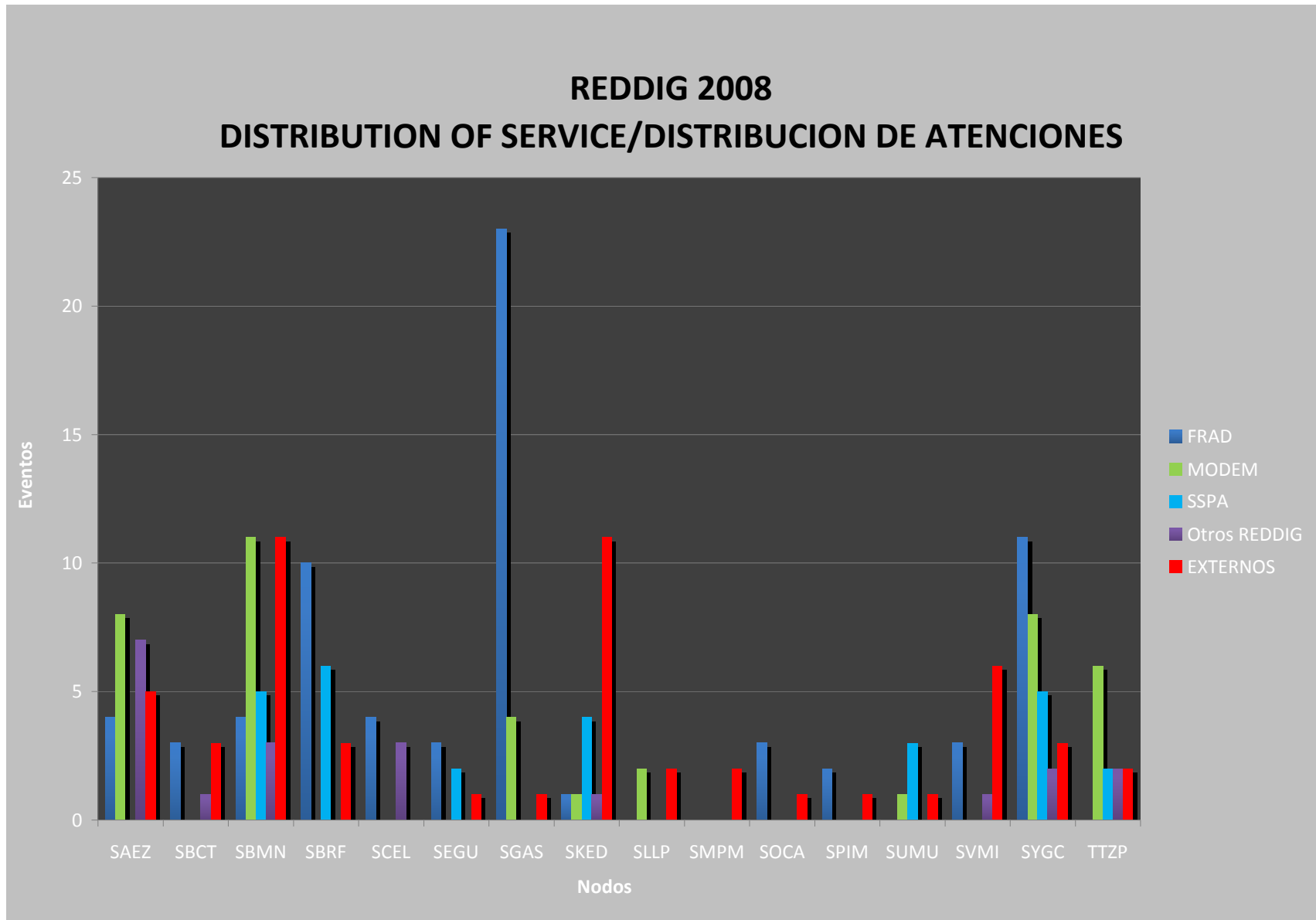
1.2 REDDIG Station

- a) Equipment rack
- b) Internal equipment (IDU)
 - PC Linux
 - i. Hardware
 - ii. Software
 - Voice and data interfaces
 - Base band switcher
 - FRAD Memotec
 - i. Hardware: MPS/MUX; Cards
 - ii. Software
 - MODEM Linkway 2100
 - i. Hardware: Módulos MODEM, FR, IP
 - ii. Software
- c) External equipment (ODU)
 - Antenna 3.7M
 - SSPA Paradise Datacom
 - i. Software M&C
 - LNB
 - Wave guidance switchers
 - i. Interconnection cables

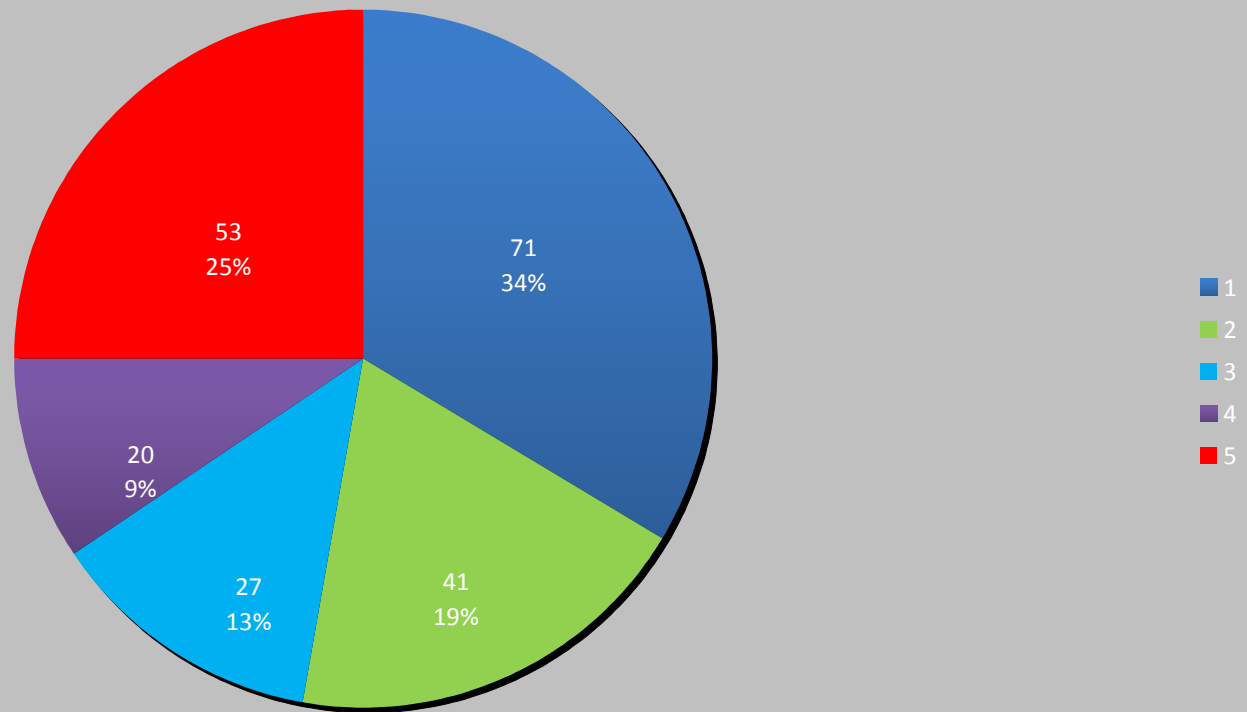
1.3 Station Maintenance

- a) AC power feeding system
- b) Ground system
- c) IDU and ODU equipment cleaning plan





REDDIG 2008
DISTRIBUTION OF SERVICE BY EQUIPMENT CATEGORY /
DISTRIBUCION DE ATENCION POR CATEGORIA DE EQUIPO



APPENDIX F / APENDICE F

**REDDIG
LISTA DE EQUIPOS FRAD MEMOTEC
MEMOTEC FRAD EQUIPMENT LIST**

FRAD	Quantity/ Cantidad
CPU-Motherboard	5
Universal I/O	6
P/S EOS AC/DC	6
E1 DIM	1
Ring Generator P/S	2

APPENDIX G / APENDICE G

**REDDIG
LISTA DE EQUIPOS MODEM
MODEM EQUIPMENT LIST**

MODEM	Quantity/ Cantidad
Terminal Linkway 2100	3
Power Supply	6

Agenda Item 3: Work Plan for 2009

3.1 Under this Agenda Item, an analysis was made to the proposal of activities to be carried out during 2009 presented by the REDDIG Administration, among which are to be highlighted:

- a) continuation of activities for the implementation of MEVA II / REDDIG interconnection;
- b) the 2009 training programme;
- c) the third technical-operational meeting;
- d) migration of the network to the IS-14 satellite;
- e) the REDDIG NCC and Management Centre operation alternation;
- f) implementation of new services;
- g) planning for the renewal of the whole REDDIG platform; and
- h) study the need to increase the bandwidth.

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

3.2 The activities to carry out as regards the implementation of the MEVA II / REDDIG interconnection are presented Appendix C to the report on Agenda Item 2.

2009 training programme and Third technical-operational meeting (RTO/03)

3.3 Brazil informed that, due to a number of administrative issues, this year it could not host the RTO/03 meeting. In this sense, Venezuela offered itself as host for these events and agreed to hold them jointly during the week of 17 to 21 August 2009. The first three days would be dedicated to the training course and the last two days, to the RTO/03 meeting. The Agenda of the training course is presented as **Appendix A** to this part of the Report. In turn, the RTO/03 meeting will deal with aspects related with the network's migration to satellite IS-14, as well as the REDDIG maintenance and operation procedures, plus the inclusion of new services.

Network migration to IS-14 satellite

3.4 It was informed that, in accordance with information provided by Intelsat, the current satellite in use by REDDIG, the IS-1R (previously, the PAS-1R) will be replaced in September 2009 by the IS-14 satellite, in the same orbit position. To that end, Intelsat would coordinate with the REDDIG Administration and will provide the transition plan procedures to follow.

3.5 Before the satellite replacement, it was agreed that the REDDIG Administration carry out necessary coordinations with the REDDIG nodes for the application of the procedures of the transition plan to follow.

REDDIG NCC and Management Centre operation alternation

3.6 Taking into account that the alternation of operation of the REDDIG NCC and Management Centre is a continuous procedure to keep the network's respective redundancy, it has been scheduled that the NCC and Management Centre operate this year from Argentina for three weeks, at a date to be determined within the second semester of 2009.

Implementation of new services

3.7 The following activities will require the implementation of new services in REDDIG:

- a) MEVA II / REDDIG interconnection;
- b) radar data and flight plan exchange product of the automation activities planned to be implemented in the Region; and
- c) start-up of AMHS international circuits among different States of the Region.

Plan for the total renewal of the REDDIG platform

3.8 The REDDIG Administration will have to develop and present a total REDDIG platform renewal plan, taking into account the current situation of the equipment composed by the REDDIG nodes (refer to Conclusion RCC 12/1), as well as the necessary precautions relative to MEVA II / REDDIG interconnection.

3.9 This plan must contain a study on the most appropriate technology for the future REDDIG platform, and a transition plan for its implementation.

Study on the need for band width increase

3.10 The Meeting took note that REDDIG currently has 42 circuits installed for the dedicated ATS speech service, 49 circuits for the switched ATS speech service, 39 voice circuits for administrative purposes, 58 AFTN circuits, 2 radar circuits and y 6 circuits for meteorological data.

3.11 For all these services, REDDIG has 1,328 Kbps available in total to transmit traffic among all the network's terminals, equalling to 83 bursts of 16 Kbits/sec.

3.12 It was informed that during the network's peak traffic period, 976 Kbps are used, equalling to 61 bursts, i.e. 73.5% of the total maximum capacity available.

3.13 In addition, that taking into account that consideration should be given to having a 10% *minimum reserve* of the total bursts before reaching the burst maximum capacity, the total number of usable bursts would be of 75 (83-8), with the aim of avoiding congestion saturation.

3.14 Considering the current major traffic peak period, it was observed that there is an appropriate band width available, remaining 14 bursts available as regards the required reserve before reaching 75, which would be the maximum usable number of bursts.

3.15 Since in the next years it has been foreseen to implement new services in REDDIG, such as the ATSMHS service, radar data and other ATS voice and AFTN data services for MEVA II / REDDIG interconnection, the Meeting deemed it convenient to take precautions regarding an additional satellite band width requirement.

3.16 The Meeting analyzed an initial study on the subject, which was agreed should be examined, and established an Ad-hoc Group composed by Argentina, Brazil and the REDDIG Administration, to analyze the necessary band width increase, while taking under consideration the implementation of new services required, and adopted the following Conclusion:

Conclusion RCC 12/2 Study on the requirement of an additional band width for REDDIG

That the Ad-hoc Group composed by Argentina, Brazil and the REDDIG Administration study the band width requirement necessary in view of the implementation of new REDDIG services, and present its results before 15 May 2009 with the aim that the REDDIG administration start, in the event necessary, coordinations with Intelsat for the allotment of an additional satellite segment for 2010.

3.17 The Meeting deemed that, independently from the results of the band width requirement study, it would be convenient to include budgetary precautions as of 2010 regarding a new 1.25Msym/sec band width carrier. The exact amount will be adjusted with the results from the Ad-hoc Group.

3.18 On the other hand, Brazil presented the Meeting with studies on trials made regarding necessary band width for the implementation of IP and AMHS speech services between the Manaus and Brasilia MTA. In addition, Argentina informed of the tests carried out between the Ezeiza and Asunción MTAs. It was agreed that the results of these trials were taken into consideration by the Ad-hoc Group.

Agenda Item 4: Financial situation of project RLA/03/901 and approval of project budget for year 2009

4.1 Under this Agenda Item, the Meeting was informed on the obligations incurred by the Project during 2008 and on the situation of cost-sharing contributions, and analyzed the budget for 2009, 2010 and 2011.

Situation of cost-sharing contributions

4.2 The Meeting took note of the situation of cost-sharing contributions presented in **Chart #1**, observing that **Suriname** has pending cost-sharing contribution deposits since 2007.

4.3 The Meeting analyzed the situation of this State, and was made aware that ICAO had already sent three reminders. Therefore, the next phase in the procedure established regarding delayed deposits of cost-sharing contributions was to be applied, which ends with the suspension of the communications services. In this sense, it was agreed that ICAO again request payment to Suriname, and in the event these contributions are not received before **1 July 2009**, REDDIG administration will proceed with the following actions set in the procedure for cases of payment of delayed deposit of contributions:

First Action:	Suspension of the service of technical-operational attention and support for 10 calendar days.
Second Action:	6-hour partial suspension of the satellite PVC circuits in the node in question, for 5 calendar days.
Third Action:	12-hour partial suspension of the satellite PVC circuits in the node in question, for 10 calendar days.
Fourth Action:	Indefinite total suspension of all PVC satellite circuits in the node in question.

4.4 Based on the above, the Meeting formulated the following conclusion:

Conclusion RCC 12/3 Activation of actions foreseen in procedure of cases of delayed deposits of cost-sharing contributions of Suriname

Considering that **Suriname** still has pending cost-sharing contributions to project RLA/03/901 for year 2007, in case that the deposit of these contributions is not received before 1 July 2009, the REDDIG Administration would proceed to the application of the actions foreseen for cases of delayed deposit of cost-sharing contributions.

Summary of obligations contracted by RLA/03/901 project during the year

4.5 The Meeting was informed of the obligations contracted by RLA/03/901 project from year 2003 to 2008 (**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; and USD 589,171 in 2008. On the other hand, contributions received to date amount to USD 3,244,100 showing a balance of more than **USD 495,729** at the beginning of 2009, where payment of the satellite segment and to project personnel must be taken under consideration. Also, **Chart # 3** shows a bar chart regarding project expense distribution in 2003, 2004, 2005, 2006, 2007 and 2008, as well as a pie chart, clearly showing total execution per budgetary line (2003 , 2004, 2005, 2006, 2007 and 2008).

4.6 In addition, the 2009 budget amounts to USD 993,366, which, as previously mentioned, should be carried out with the funds remaining in the Project, plus the 2009 contributions and those pending from 2008.

4.7 The Meeting was informed that due to commitments of project for the payment of satellite segment and project personnel, it is urgent to receive the 2009 contributions.

4.8 In this regard, the Meeting agreed to adopt the following conclusion:

Conclusion RCC 12/4 Deposit of RLA/03/901 project cost-sharing contributions

That REDDIG member States urgently arrange for the deposit of their cost-sharing contributions to RLA/03/901 project before 1 July 2009.

RLA/03/901 budget

4.9 The Meeting took note of the budget prepared by the Secretariat; the amounts necessary for the MEVA II / REDDIG interconnection were again budgeted for 2009, as well as an amount for the satellite band width increase as of 2010, which would be kept as long as the result of the study to be carried out in 2009 shows the need for this increase. The budget contains amounts for the purchasing of equipment for COCESNA, within the MEVA II / REDDIG interconnection agreement, and also incorporates a contribution line from COCESNA pertaining to REDDIG network access.

4.10 After thoroughly analyzing RLA/03/901 project document presented by the Secretariat and incorporating changes, the Meeting agreed in adopting the following Conclusion:

Conclusion RCC 12/5 - Revision of RLA/03/901 project document budget

That, the budget established as RLA/03/901 project Revision M is approved, as presented in **Appendix A** to this part of the report.

Chart # 1
Project RLA/03/901 cost sharing contributions
Years 2003 to 2008

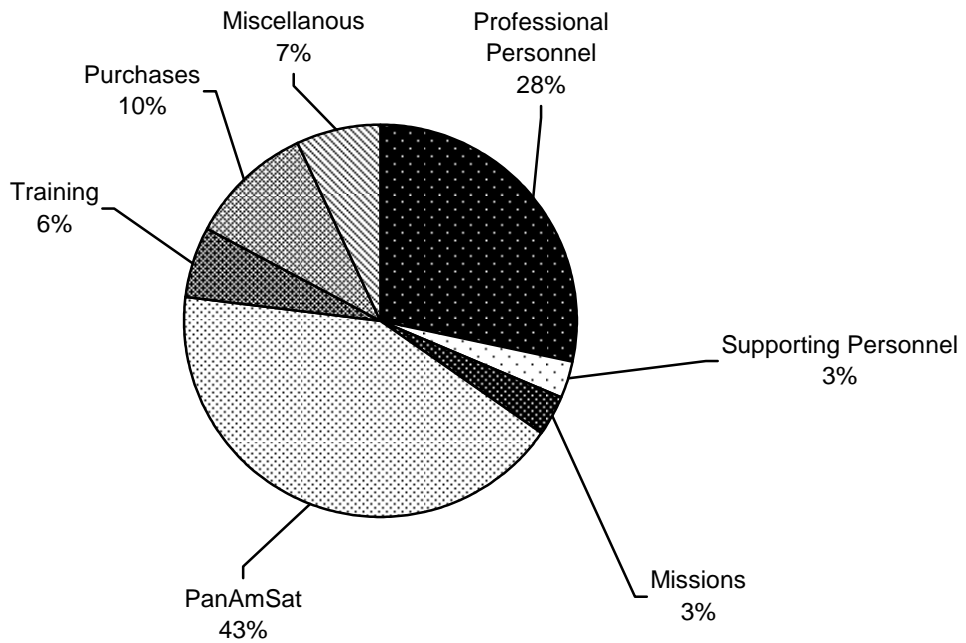
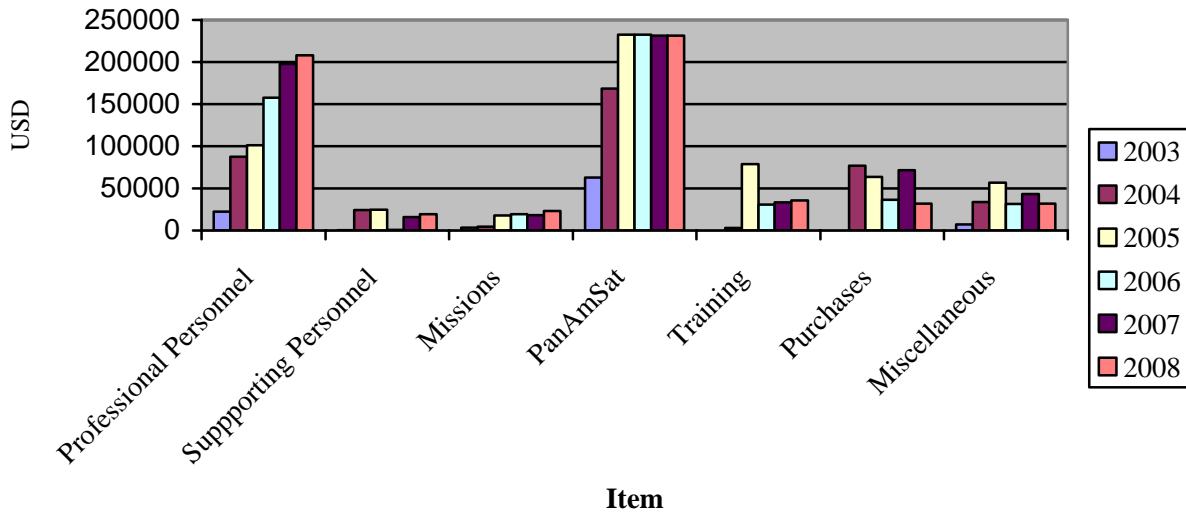
State	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt	Quota	Debt	Total Deposits	Total Debt
	2003-2004		2005		2006		2007		2008			
Argentina	80,463	0	37,800	0	44,800	0	66,700	0	80,000		310,566	0.0
Bolivia	61,663	0	28,900	0	33,600	0	10,900	0	43,675		178,738	0.0
Brazil	196,690	0	79,400	0	111,000	0	60,800	0	81,444		529,334	0.0
Chile	75,113	0	36,400	0	67,000	0	28,710	0	29,500		236,723	0.0
Colombia	186,363	0	162,094	0	0	0	150,000	0	0		336,363	0.0
Ecuador	56,113	0	25,500	0	29,100	0	19,000	0	40,865		170,578	0.0
France	46,063	0	20,900	0	26,400	0	25,000	0	45,795		164,158	0.0
Guyana	44,213	0	19,900	0	22,900	0	15,000	0	35,935	20	137,928	20.0
Paraguay	48,063	0	21,900	0	30,700	0	25,600	0	46,160		172,423	0.0
Perú	77,913	0	36,500	0	39,690	0	40,000	0	71,372		71,372	0.0
Surinam	41,713	0	18,500	0	28,700	45	18,300	18,300	36,412	36,412	88,868	54,757.0
Uruguay	63,713	0	28,800	0	28,000	0	77,171	45	64,003	29	261,658	29.0
Venezuela	60,013	0	27,200	0	45,800	0	38,700	0	71,774		243,487	0.0
T&T	0	0	22,700	0	22,700	0	15,500	16	37,791	20	98,671	20.0
Intereses	6,212		9,685		14,504		17,065		0		49,119	
TOTAL	882,214		576,179		546,557	45	608,446	18,300	684,726	36,481	3,244,100	54.826

NOTE: Some differences between the amounts deposited by States and that reflected by ICAO are due to transaction costs or exchange differences.

Chart # 2
Detailed Breakdown of Expenditures as of 31 December 2008

Rubro	2003	2004	2005	2006	2007	2008	TOTAL
BL 11 Experts							
REDDIG Administrator	22,359	87,650	101,296	157,561	197,784	206,405	773,055
BL 13 Adm. Support						1,500	1,500
13-01 Secretary							
13-02 REDDIG technician	354	12,185	12,551	0	15,718	19,146	59,954
BL 15 Official missions		12,000	12,108	712	250		25,070
BL 16 Missions		321	925	499	0		1,745
BL 20 Sub-Contracts	3,504	4,110	16,733	18,642	18,357	23,216	84,562
21-01 Satellite Segment Rental to PanAmSat (01 Oct up to 31 Dec 2003) P.O. 30473							
21-01 Satellite Segment Rental to PanAmSat (2004) P.O. 40670	62,727						62,727
21-98 Professional Responsibility Insurance		168,849	231,264	231,264	231,264	231,264	1,093,905
BL 39 Training (Simultaneous interpretation)		845	1,156	3,469	0	4,931	10,401
BL 40 Equipment		3,014	53,862	30,553	34,044	35,554	157,027
45-01 Spares							
45-02 Office Equipment		(12,752)	59,542	36,312	71,637	26,832	181,571
45.03 Equipment Operation and Maintenance	82		2,083	(30)	0		2,135
45.04 Transfer of the NCC from SPIM to SBMN		1,716	1,781		0		3,497
PO 40694 VIASAT							
PO 40687 MEMOTEC		8,250					8,250
45.05 PO 40489 Extension of SEEE contract		4,250					4,250
45.06 PO 40090 SEEE Back-up network		50,000					50,000
45.98 Professional Liability Insurance (PLI)		24,820					24,820
BL 53.01 Communications, Bank charges, courier, etc.		444	284	246			974
BL 53.02 PNUD Services	643	4,726	4,475	1150	8,688	4,204	23,886
55.01 Administrative cost AOSC		118	505	337	0	428	1,388
BL 11 Experts	6,439	28,795	35,817	34,695	34,601	35,691	176,038
TOTAL	96,108	399,341	534,382	512,864	612,343	589,171	2,746,755

Chart #3
2003-2008 Expense Distribution
RLA/03/901 Project



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 (May 2008 – February 2009 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**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: December 2008

Total budget (dollars):
Initial amount: 1,958,200
Last approved revision: 1,958,200

Period covered by the report: May 2008 to February 2009

PART I: NUMERICAL RATING

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

1 – Extremely satisfactory

2 – Satisfactory

3 – Unsatisfactory, with some positive elements

4 – Unsatisfactory

X – Not applicable

Please give your answers in the corresponding column.

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

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN	
(Indicator 1) SAM States will have a proposal harmonized with their interests for the establishment of a multinational mechanism for REDDIG management.		2		1	1					2						2
(Indicator 2) Adequate administration of the REDDIG under the direct management of the project.		2		1						2						1
(Indicator 3) Elaborate, in coordination with the States, a plan of action for the implementation of the CNS/ATM applications on the REDDIG platform.		2		1						2						1
2. Rate the achievement of the project results.		2			1					1						1
3. Are the management mechanisms of the project adequate?		2		2	2					1						1
4. Are the project resources (financial, physical and human) sufficient with respect to:		2														
a) Quantity?		2		2	2					2						3
b) Quality?		2		1	1					2						2
5. Are the project resources being used efficiently to produce planned results?		2		2	2					1						1
6. Is the project effective in relation to costs in comparison with similar programs or projects?		2		1	2					2						1
7. On the basis of your work plan, how would you rate the opportunity degree of the project regarding:		2		2												
a) Achievement of initial products and results?		2		2	1					2						1

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	T&T	URU	VEN
b) Supplies delivery?		1		1	2					1					1
GLOBAL RATING OF THE PROJECT		2		1						2					1

Explain 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 has been efficiently administrated, providing member States with a highly reliable communications network for their aeronautical services, and a timely provision of the necessary logistics for the availability of spare parts and repair of the network's nodes' equipment. With the aim of complying with the REDDIG NCC operations and management centre alternation, operational services were provided from the Ezeiza NCC, and on-the-job training was given to personnel at Ezeiza. Two basic courses on REDDIG Station were carried out, one for English-speaking States/Territories members of REDDIG, in Georgetown, Guyana and the other, for Spanish-speaking REDDIG member States, in Maiquetia, Venezuela. A 64 Kbit/sec circuit between Ezeiza and Asuncion was programmed, to carry out AMHS trials between the respective MTAs, with excellent results. A circuit between the Curitiba and Ezeiza nodes was planned, to pass through the Manaus node, for the holding of IP voice tests in a double satellite hoop circuit.

PART II: DESCRIPTIVE EVALUTION

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. Simplicity in the introduction of new circuits, without any problems (Asuncion-Ezeiza circuit for AMHS, Curitiba, Manaus and Ezeiza circuits for IP voice tests).

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

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

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

2.2. A review should be made to the procedure, taking under consideration the negative operational aspects that the service cut to those not paying in due time produce to the rest of the States.

2.3. Some States do not process with the necessary urgency authorizations and administrative documents recommended by the REDDIG administration for the export and import of equipment and damaged parts for repair at the manufacturer or required for deposit at the REDDIG spare parts storage. This generates a high operational risk to REDDIG.

2.4. Some States do not assist to the meetings scheduled, thus difficulting the taking of decisions.

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 Committee 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 equipment and defective spare parts.

3.3. Establish communications with States, insisting on the importance of their assistance, for the compliance of each meeting's objectives.

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. More expedite procedures are needed to be established in each REDDIG member State, or purchase parts in each node site.

4.2. VIASAT does no longer promotes the Linway 2100 Modem, and Memotec announced in January 2009 that the CX950e FRAD equipment will not be offered commercially.

4.3. Therefore, the REDDIG Administration recommends that the REDDIG spare parts lot be increased, with the purchasing of CX950 FRAD and Linkway 2100 Modem equipment, with the aim of guaranteeing the current availability of REDDIG operations for the next three years.

4.4. Consideration should be given as to what happens with the MEVA II equipment at the interconnection points.

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 for the provision of voice and data aeronautical fixed services that is providing the answers to problems presented to the communications system in the past with the use of circuits rented to communications services providers, maintaining a service high quality and availability and simplicity 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 may obtain benefits by joining together in a regional cooperation model (i.e., savings in telecommunication services costs).
- 6.2. Easy implementation of new circuits, making use of the same assigned bandwidth.
- 6.3. Spare parts sharing through a centralized storage operated by the REDDIG Administration.
- 6.4. Increase in the training of technical personnel.

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 external auditing.
- 7.2. It would be convenient to request for an external auditing, more so in the event that the regional multinational organization (RMO) takes in the project.

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 foreseen. The implementation of new services requiring a considerable bandwidth as consequence of the implementation of AMHS systems in many States of the Region is foreseen.
- 8.2. Necessary trials and studies permitting to determine the need or not of increasing the bandwidth, should be carried out.

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

- 9.1. It is recommended that the plans and proposals involving quota increments be included in the work plan sent to States, with the aim of having a better overview at the time of the decision taking.

By ICAO:		
Name:		Date:
Charge:		
Signature:		
By Argentina:		
Name:	Gustavo A. Chiri	Date: 10 March 2009
Charge:	Chief Inspector	
Signature:		
By Bolivia:		
Name:		Date:
Charge:		
Signature:		
By Brazil:		
Name:	Jorge Mauricio Motta	Date: 10 March 2009
Charge:	Technical Coordinator	
Signature:		
By Chile:		
Name:	Juan Alejandro González	Date: 10 March 2009
Charge:	Planning Director	
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:	Gustavo Báez	Date: 10 March 2009
Charge:	Chief, Control Systems	
Signature:		
By Perú:		
Name:		Date:
Charge:		
Signature:		

By Suriname: Name: Charge: Signature:	Date:
By Trinidad & Tobago: Name: Charge: Signature:	
By Uruguay: Name: Charge: Signature:	Date:
By Venezuela: Name: Luis Escobar Charge: Signature:	Date: 10 March 2009

PART III: Synoptical chart of the Project

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

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

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

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

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

Agenda Item 6: Other matters

6.1 The Corporación Peruana de Aeropuertos y Aviación Comercial S.A. (CORPAC) (Peru) invited States participating in REDDIG RCC/12 meeting to visit the facilities where the acquired and recently inaugurated Air Traffic Services Message Handling Services (AMHS) system had been installed. Most of the participants in the Meeting visited the AMHS system facilities on 10 March, upon the event's finalization. The AMHS equipment installed has been manufactured by Comsoft.

6.2 The Meeting took note that Argentina, Brazil, Paraguay and Peru would carry out interconnection tests to the AMHS systems installed in their States.

6.3 Brazil informed that VoIP voice trials between Curitiba and Manaus would continue, and that they would be completed by the end of April 2009.