



REDDIG RCC/6

INTERNATIONAL CIVIL AVIATION ORGANIZATION

South American Regional Office

SIXTH MEETING OF THE COORDINATION COMMITTEE OF

REGIONAL PROJECT RLA/98/019

IMPLEMENTATION OF SOUTH AMERICAN DIGITAL NETWORK REDDIG

REPORT

(Lima, Peru, 20 – 21 November 2003)

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HISTORY OF THE MEETING

1. PLACE AND DURATION OF THE MEETING

The Sixth Meeting of the Coordination Committee of regional project RLA/98/019, Implementation of the South American Digital Network REDDIG, was carried out in the ICAO South American Regional Office, in Lima, Peru, from 20 to 21 November 2003.

2. OPENING

Mr. José Miguel Ceppi, Regional Director of the ICAO South American Regional Office, welcome the participants, pointing out the importance of the issues to be treated. Following, Mr. Guido Niño de Guzmán, General Manager of CORPAC, Corporación Peruana de Aeropuertos y Aviación Comercial S.A., welcome the participants in the name of the State of Peru, declaring the meeting as inaugurated.

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 States (Argentina, Bolivia, Brazil, France, Peru and Uruguay), making a total of 16 participants, including ICAO officers. The list of participants is being presented in pages iii-1 to iii-4.

Mr. Carlos Stehli, Deputy Regional Director a.i. of the ICAO South American Regional Office, acted as moderator, assisted by Mr. Thierry Alberny, Officer of the Procurement Section of the Technical Cooperation Bureau, ICAO, Montreal; Mr. Oscar Quesada-Carboni, Technical Cooperation Regional Coordinator, Mr. Onofrio Smarrelli, Regional Officer of Communications, Navigation and Surveillance (CNS) of the ICAO South American Regional Office, and Mr. Luis Alejos, Administrator of the REDDIG.

5. **LIST OF CONCLUSIONS OF THE RCC/6 MEETING**

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Agenda Item 1: Revision of the report of the Fifth Meeting of the Coordination Committee of the REDDIG

1.1 While revising the results of the Fifth Meeting of the Coordination Committee of Project RLA/98/019, the meeting recognized that the implementation plans of pending issues considered in Conclusion RCC 5/2 – Activities and program for the REDDIG start-up, had not been totally concluded, and that, if it is true that the transference of services had been carried out for ATS and AFTN oral communications coordinations, the implementation of the Backup Network and the elaboration and use of the Operation Manual for the REDDIG, related to Conclusions RCC 5/3 and RCC 5/4, were of fundamental importance to guarantee the future operation and maintenance of the Network.

1.2 In this regard, the meeting had the perception that the delay in the implementation of the issues above mentioned, jointly with other issues that were discussed in the present RCC/6 Meeting, would affect the early benefits for the States, since the present systems could not be deactivated until there could be clarity in the plans that ICAO should agree with the Contractor, in correspondence to the respective clauses of the Contract, in order to solve the pending issues and continue with the Final Acceptance Tests. These aspects are documented in detail in Agenda Item 4.

1.3 The delegate of France, while referring to the REDDIG Manual of Operation, indicated that, for the Cayenne Node, his Administration had elaborated a similar manual to the one presented, copy of which, in French, was handed to the Project. While commenting this issue, the meeting agreed that all the Nodes should elaborate said document.

1.4 Afterwards, the meeting reviewed the status of validity and progress of conclusions. In **Appendix A** of this part of the Report, the list of conclusions revised by the Meeting is being presented.

CONCLUSIONS ADOPTED BY PREVIOUS RCCs STILL IN FORCE				
Title	Content	Status	Priority	Remarks
RCC3/4 Alternative solutions to implement the NCC in Manaus	In order to implement the NCC in Manaus, that project RLA/98/019, in coordination with the contractor SEEE, study alternative solutions to that meaning to transfer the NCC from Lima to Manaus, which can be of benefit to the management and operation of the REDDIG.	In Force	1	
RCC4/2 Detailed breakdown of expenditures when finalizing the project	That ICAO, when project RLA/98/019 activities are concluded, present a detailed breakdown of the expenditures incurred by the project, which should be included in the Project Final Report	Achieved	2	Agenda Item 3 RCC/6
RCC5/1 Use of remaining funds of project RLA/98/019	That, a) remaining funds of project RLA/98/019 be used to cover the cost of fellowships for the training courses programmed under the project, and meanwhile States make the deposits of their costs-sharing contributions to the new project RLA/03/901, ICAO could temporarily make use of the remaining funds of project RLA/98/019 to guarantee the signing of the contract with PanAmSat for the lease of the space satellite segment. b) remaining funds, after the equal distribution of fellowships for each REDDIG node, will be transferred to project RLA/03/901.	In Force	2	
RCC5/2 Activities and schedule for the REDDIG start-up	That the States, in order to finalize the activities for the REDDIG start-up, solve, if they have not yet done it, the pending issues presented in Appendix A to this part of the report, regarding the connection of the user terminal equipment to the REDDIG and, in coordination with the project, make all the necessary efforts to comply starting 2 June 2003 with the schedule of activities indicated in Appendix A .	In Force	1	

CONCLUSIONS ADOPTED BY PREVIOUS RCCs STILL IN FORCE				
Title	Content	Status	Priority	Remarks
RCC5/3 Implementation of the backup network	That the States, in coordination with the project and considering the documentation provided in this Report, establish, as an urgent issue, the definite configuration of the REDDIG backup network and take it into practice within the times indicated in Appendix A	In Force	1	
RCC5/4 REDDIG operation manual	That the ad-hoc task-force, conformed by Argentina, Brazil, Chile, France and Peru, work with the expert of the project to prepare a first revision of the REDDIG Operation Manual, to be used in the date of initiation of the REDDIG start-up and that it include orientation material about normalized procedures of service quality for each REDDIG node.	Concluded	1	
RCC5/5 Deadline for the deposit of the States contributions to project RLA/03/901	In order that ICAO could sign a five-year contract with PanAmSat for the rental of the REDDIG satellite segment, the States, as an issue of urgency, and not later that 15 June 2003, deposit in ICAO account their cost-sharing contributions corresponding to the first year payments program established for project RLA/03/901.	Superseded	1	Substituted by RCC 6/4
RCC5/6 Participation of Colombia in project RLA/03/901	That ICAO, as an issue of urgency and high-priority, urge Colombia to participate in regional project RLA/03/901 in order that this State is totally integrated to regional communications for the AFS and participates in the efforts to attain institutional agreement of multi-national nature that would facilitate the cost/efficient implementation of CNS/ATM systems.	Concluded	2	Agenda Item 5 RCC/6

Agenda Item 2: Report on activities carried out up to date since the last meeting of the Coordination Committee of project RLA/98/019

2.1 Under this agenda item, the meeting was informed about the principal activities carried out by the Project since the last coordination meeting (RCC/5), carried out from 26 to 28 May 2003, up to date.

2.2 Principal activities carried out up to date were:

- Coordination for the provision of resources in the Lima NCC;
- On-the-job training (OJT);
- REDDIG start-up;
- Operation Manual; and
- Back-up Network

Coordination for the provision of resources in the Lima NCC

2.3 Regarding this issue, the Meeting took note about the coordinations carried out by the Project with the Aeronautical Administration of Peru for the provision of human and logistic resources in the Lima NCC.

2.4 In this regard, the Meeting was informed that the Aeronautical Administration of Peru, through CORPAC, provided four specialists for the Lima NCC, exclusively dedicated to the Project. Likewise, an office for the Network Administrator was provided, equipped with furniture, computer and access to the measuring instruments, in a room next to the NCC.

On-the-job training (OJT)

2.5 The Meeting took note of the on-the-job training activities carried out in the Instruction, Perfection and Experimentation Center (CIPE), and in the NCC in the International Airport of Ezeiza, Buenos Aires, Argentina, as a complement to the courses carried out by the contractor in the first two months of 2003.

2.6 The course was imparted by the project expert, in the month of August 2003, and it had the objective that all trainees acquire the practical experience in the maintenance of the equipment conforming the REDDIG node, as well as in the operations with the NCC management center of the network. The course was imparted in three groups, with the participation of trainees coming from all the REDDIG nodes, with the exception of the Lima node that, due to administrative reasons, was not able to be present. In this regard, the Delegate of Peru indicated the need that the Lima node personnel receive in-the-job training.

2.7 The Delegate of Brazil informed that the personnel from the Manaus node who participated in the training, expressed that they had not received enough training about the NCC operation and that, therefore, it would be necessary that an additional course be carried out in this regard, since management operations of the network would be transferred from Lima to Manaus shortly.

2.8 In this regard, the project Administrator informed to the Meeting that the project had contemplated the execution of a training course on NCC operation in Lima, for the local technical personnel and for the technical personnel of Manaus, within project costs.

REDDIG start-up

2.9 The Meeting took note that the transference of ATS oral services in the REDDIG took place starting 26 September 2003, and the AFTN services started to be transferred since 29 September 2003.

2.10 It was informed to the Meeting that the totality of ATS oral circuits, dedicated and switched, had been transferred to the REDDIG, and that these were being operated satisfactorily. Likewise, it was informed that the installations of telephone terminals for the administrative network were still missing, and that this was the responsibility of the Aeronautical Administrations. In the same way, it was informed that most of the AFTN circuits had been transferred to the REDDIG, and that these were operating satisfactorily.

2.11 Likewise, the Meeting took note about the principal faults occurred in the REDDIG since the network acceptance tests (NAT) up to the present date, as well as of the actions carried out by the project, and those required from the contractor (See **Appendix A** to this part of the report).

Operation Manual

2.12 The Meeting took note of the progress in the elaboration of the operation manual. In this regard, and in order to conclude said manual, the Meeting was informed about the need to complete the technical form for the operation of the node (RDG-TF-01), the information about the availability in each node of the "Operation & Maintenance Manual Issue B/B1, supplied by SEEE, as well as of the nodes telephone numbering plan, in order to complete a telephone directory of the REDDIG.

2.13 The Meeting, considering that not all the nodes had completed the necessary information to finish the operation manual, formulated the following conclusion:

Conclusion RCC6/1 Supply of information for the REDDIG Operation Manual

That, in order to complete the REDDIG operation manual:

- a) Bolivia and Paraguay complete the technical form for the node operation (RDG-TF-01) of the operation manual that is presented as **Appendix B** to this part of the report, and forward this form to ICAO Regional Office before 15 December 2003.
- b) That Bolivia, Ecuador, France, Guyana, Surinam, Uruguay and Venezuela elaborate the telephone numbering plan of their nodes, in order that the REDDIG telephone directory can be completed, and forward this plan to ICAO Regional Office before 15 December 2003.

Backup Network

2.14 The Meeting took note of the topology of the REDDIG backup network, designed by the Project. The backup network would have 9 nodes with backup via ISDN, 4 nodes with backup via dedicated circuits (Interface V35) and 2 nodes via VPN/IP.

2.15 The topology and configuration indicated above have been sent to the contractor in order that he can elaborate the "Mapping Table" of the Backup Network, and approved by the Project Office, to proceed with the programming of the REDDIG equipment. Under Agenda Item 4, more information in this regard is being presented.

EQUIPMENT FAILURE REPORT - 19 NOVEMBER 2003					
#	NODE	CHAIN	ITEM	SINCE	DESCRIPTION OF FAILURE AND REQUESTED ACTIONS
1	SPIM	A	SUN-A	18-07-03	Computer in HALT with no access at all. This failure happened four times since then . Last time was in 21-09-03 As a result the NCC is relayed to SUN -B with no network communications for about 5 minutes. Reset was needed for SUN-A ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem Make a complete diagnostic Update the unit with available patch(es) Configure and program fully operational a spare unit which would replace the current SUN-A Deliver at SPIM site a new SUN to replace the employed spare according to TSD 10.3.1.2 ICAO's ACTIONS Facilitate one spare SUN if available at site Send the failed unit to SEEE
		B	SUN-B	23-10-03	While in operation, progressively went too slow until the network nodes went into red alarm. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem Make a complete diagnostic Update the unit with available patch(es) Configure and program fully operational a spare unit which would replace the current SUN-A Deliver at SPIM site a new SUN to replace the employed spare according to TSD 10.3.1.2 ICAO's ACTIONS Facilitate one spare SUN if available at site Send the failed unit to SEEE
2	SCEL	B	MUX	00-06-03	One dual E&M analog voice card failed. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the failed card Deliver at SCEL site a new card according to TSD 10.3.1.2 ICAO's ACTIONS Install the new card Send the failed unit to SEEE
		A	MODEM - A	01-11-03	Frame Relay TIA Module (V.35 Interface) with intermittent failure. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the Modem unit Deliver at SCEL site a new Modem unit ICAO's ACTIONS Install the new unit Send the failed unit to SEEE

#	NODE	CHAIN	ITEM	SINCE	DESCRIPTION OF FAILURE AND REQUESTED ACTIONS
3	SEGU	A	MODEM /BUC-SSP/	01-09-03	External Mute at BUC activated randomly ON. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem ICAO's ACTIONS Provide local support with verification of 10MHz reference signal
4	SYGC	A	MODEM-A	26-09-03	External Mute activated randomly ON. Modems "A" and "B" swapped and the external mute alarm went to BUC-SSPA "B". Problem focused in Modem "A" ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the failed unit Deliver at SYGC site a new unit according to TSD 10.3.1.2 ICAO's ACTIONS Install the new unit Send the failed unit to SEEE
5	SAEZ	A	MPS	20-08-03	Intermittent failure status. The equipment alarms in "yellow". During this status is not possible to get into it through the CX Access. The configuration script was reloaded but the alarm persists. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem Make a complete and deep diagnostic Replace the complete unit Deliver at SAEZ site a new complete unit according to TSD 10.3.1.2 ICAO's ACTIONS Install the new unit Send the failed unit to SEEE
		B	MPS	13-10-03	Intermittent failure status. The equipment alarms in "yellow". The configuration script was reloaded but the alarm persists. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem Make a complete and deep diagnostic Replace the complete unit Deliver at SAEZ site a new complete unit according to TSD 10.3.1.2 ICAO's ACTIONS Install the new unit Send the failed unit to SEEE

#	NODE	CHAIN	ITEM	SINCE	DESCRIPTION OF FAILURE AND REQUESTED ACTIONS
6	SMPM	B	BUC-SSPA	01-05-03	LNB replaced with new one but intermittent link loss continues. After tests, the problem is focused in BUC-SSPA - B ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.3 and 10.3.1.6 c) Solve the problem Replace the unit Deliver at SMPM site a new unit according to TSD 10.3.1.2 ICAO's ACTIONS Install the new unit Send the failed unit to SEEE
		A	MUX Dual Analog Voice I/O Card with: (1) FXS and (1)E&M	13-11-03	FXS- Voice module on Slot 8 ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the faulty module / card Deliver at SMPM the new module / card ICAO's ACTIONS Install the new unit Send the failed unit to SEEE
7	SBCT	B	BUC-SSPA	01-09-03	Permanent yellow alarm. No readings from BUC nor SSPA at the Status Summary screen. After tests, the problem is focused in the internal M&C module of unit. ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the unit Deliver at SBCT site a new unit according to TSD 10.3.1.2 ICAO's ACTIONS Install the new unit Send the failed unit to SEEE
8	SUMU	B	MPS	22-10-03	Out of service. MPS's slow-blow fuses and associated rack fuse blown ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2 Replace the unit Deliver at SPIM site a new unit according to TSD 10.3.1.2 and 10.3.1.4 as SPIM is to send to SUMU one unit ICAO's ACTIONS Install the new unit Send the failed unit to SEEE

#	NODE	CHAIN	ITEM	SINCE	DESCRIPTION OF FAILURE AND REQUESTED ACTIONS
9	SBRF	B	MUX	23-10-03	<p>FXS channel loses established communication after a couple of minutes.</p> <p>ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2</p> <p>Replace the card Deliver at SBRF site a new unit card according to TSD 10.3.1.2</p> <p>ICAO's ACTIONS</p> <p>Install the new card Send the failed card to SEEE</p>
10	SVMI	A	MODEM- A	03-11-03	<p>IP Module (10BaseT Interface) not working.</p> <p>ACTIONS REQUESTED TO SEEE IN ACCORDANCE WITH TSD 10.3.1.2</p> <p>Replace the Modem unit Deliver at SVMI site a new Modem unit</p> <p>ICAO's ACTIONS</p> <p>Install the new unit Send the failed unit to SEEE</p>

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ANNEX A

Form: Technical Form for the operation of the REDDIG Node (RDG-TOF-01)

1. General Information of the REDDIG node

Item	Information
REDDIG Node	
Address	
Telephone (maintenance technical unit)	
Fax (maintenance technical unit)	
E-mail (maintenance technical unit)	
Telephone numbers of the REDDIG Administrative Network	

Note: provide the complete telephone number including the country and city codes, the local telephone number and, if it is the case, the extension number.

2. Information of the REDDIG Node Technical Unit

1 Name	Charge (2)	REDDIG telephone	Telephone (1)	Cellular

Notes

(1) Provide the complete telephone number of the public network, including country and city codes, local telephone number and, if it is the case, the extension number.

(2) If the person is authorized to request changes in the node configuration, a call saying, "The Administration should assign ..." should be included before the description of the person charge.

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4. REDDIG Node Technical Information

Item	Information	Comment
REDDIG dialup MODEM telephone number		
ATSa network access prefix		
REDDIG Administrative network access prefix		
Test number for ATSa incoming call		
Test number for ATSa outgoing call		
Test number for the Administrative network incoming call		
Test number for the Administrative network outgoing call		

Notes:

(1) The access prefixes are only required in case of operation with PABX or VCSS.

(2) The test numbers for incoming calls should correspond to the REDDIG network directory number (code of the node and local number).

Agenda Item 3: Financial situation of the project

3.1 Under this agenda item, the Coordination Committee received a detailed breakdown of expenditures of project RLA/98/019, required by Conclusion RCC 4/2. In **Appendix A** of this part of the report, the detailed breakdown of expenditures of the project is being presented.

3.2 In this regard, the Meeting was informed that all the States completed the deposit of their cost-sharing contributions, totaling USD 5,098,000, including the interest generated by these contributions, for an amount of USD 48,700.

3.3 Likewise, the Meeting took note of the financial balance of the project, which is presented in Chart # 1, noting that, after the obligation committed by the project are executed, a balance of USD 2,800 would be available. In accordance with Conclusion RCC 5/1. Once obligations committed by project RLA/98/019 are covered, the remaining funds will be transferred to project RLA/03/901.

Chart # 1
Balance of project RLA/98/019 SAM REDDIG
(In Thousand USD)

Income			
Contributions		5,098.5	
Interests		48,7	
	Total Received		5,147
Expenditures			
Total Expenditures		4,850	
AOS		151	
UNDP Adm Cost		97	
	Total Expenditures		5,098
Unliquidated obligations		3,4	
AOS		0,34	
UNDP Adm Cost		0,07	
	Total U.O.		3,8
Obligations for 2003			
BL 11-00 Experts		14,0	
BL 13-00 Admin. Support		9,2	
BL 16-01 Missions		3,1	
BL 39-00 Training		8,3	
BL 45-00 Equipment		--	
BL 53-01 Miscellaneous		3,0	
Total Obligations		37,6	
AOS		3,8	
UNDP Adm Cost		0,7	
	Total Obligations		42,1
NET AVAILABLE			2,8

Project RLA/98/019 Breakdown of Expenditures
As at 30 September 2003

	1999		2000		2001		2002		2003		TOTAL		Expected for 2003		U.O 2000 to 2002		Grand Total		
	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	
11 EXPERTS																			
1101 Linan Arcas			29,137.89	2,914.00	16,734.16	1,673.00		-		-	45,872.05	4,587.00		-		-	45,872.05	4,587.00	
1011 Base salary (net)		-	45,048.00	4,505.00	22,642.26	2,264.00		-		-	67,690.26	6,769.00		-		-	67,690.26	6,769.00	
1020 Post adj.		-	11,138.14	1,114.00	4,875.68	488.00		-		-	16,013.82	1,602.00		-		-	16,013.82	1,602.00	
1121 Pension fund contr.		-	13,420.08	1,342.00	6,758.60	676.00		-		-	20,178.68	2,018.00		-		-	20,178.68	2,018.00	
11122 Health & Social Cov.		-	141.00	14.00	25.95	3.00		-		-	166.95	17.00		-		-	166.95	17.00	
Sub-total BL 1101	-	-	98,885.11	9,889.00	51,036.65	5,104.00	-	-	-	-	149,921.76	14,993.00	-	-	-	-	149,921.76	14,993.00	
1102 Sheen T.																			
1031 ST Experts - Remuneration		-		-		-	24,427.95	2,443.00	51,702.72	5,170.00	76,130.67	7,613.00	6,736.11	674.00		-	82,866.78	8,287.00	
1041 CONS - Remuneration		-	34,100.00	3,410.00	23,647.62	2,365.00	26,324.41	2,632.00		-	84,072.03	8,407.00		-		-	84,072.03	8,407.00	
1121 Pension fund contr.		-		-		-	6,657.56	666.00	14,342.24	1,434.00	20,999.80	2,100.00	1,828.78	183.00		-	22,828.58	2,283.00	
1122 Health & Social Cov.		-		-		-	146.85	15.00	106.80	11.00	253.65	26.00	283.35	28.00		-	537.00	54.00	
Sub-total BL 1102	-	-	34,100.00	3,410.00	23,647.62	2,365.00	57,556.77	5,756.00	66,151.76	6,615.00	181,456.15	18,146.00	8,848.24	885.00	-	-	190,304.39	19,031.00	
1197 Consultants (Varios)																			
1041 CONS - Remuneration																			
Sheen		-		-	12,650.00	1,265.00		-		-	12,650.00	1,265.00		-		-	12,650.00	1,265.00	
Hore Kanti		-	2,750.00	275.00		-	1,100.00	110.00	275.00	28.00	4,125.00	413.00		-		-	4,125.00	413.00	
Alejos		-		-		-		-		-		-	5,170.00	517.00		-	5,170.00	517.00	
Desmarais N		-		-		-	254.78	25.00		-	254.78	25.00		-		-	254.78	25.00	
1042 CONS - Travel Appt/Term																			
Sheen		-		-	850.00	85.00		-		-	850.00	85.00		-		-	850.00	85.00	
Hore Kanti		-	1,155.00	116.00		-		-		-	1,155.00	116.00		-		-	1,155.00	116.00	
1043 CONS - Travel																			
Sheen		-		-	2,999.41	300.00		-		-	2,999.41	300.00		-		-	2,999.41	300.00	
Hore Kanti		-	274.34	27.00		-		-		-	274.34	27.00		-		-	274.34	27.00	
Sub-total BL 1197	-	-	4,179.34	418.00	16,499.41	1,650.00	1,354.78	136.00	275.00	28.00	22,308.53	2,231.00	5,170.00	517.00	-	-	27,478.53	2,748.00	
Sub-total BL 11	-	-	137,164.45	13,717.00	91,183.68	9,119.00	58,911.55	5,892.00	66,426.76	6,643.00	353,686.44	35,370.00	14,018.24	1,402.00	-	-	367,704.68	36,772.00	
13 ADM. SUPPORT																			
1301 Secretary																			
1011 Base salary (net)		-		-		-		-		-		-		-		-		-	
Rodrig M		-	12,540.87	1,254.00	9,143.44	914.00		-		-	21,684.31	2,168.00		-	3,412.10	341.00	25,096.41	2,509.00	
Coriat		-		-		-	20,488.98	2,049.00	14,251.41	1,425.00	34,740.39	3,474.00	7,148.59	715.00		-	41,888.98	4,189.00	
1302 Technical support																			
1011 Base salary (net)		-		-		-		-		-		-		-		-		-	
Peñaranda		-		-		-		-		-		-	2,015.00	202.00		-	2,015.00	202.00	
Sub-total BL 13	-	-	12,540.87	1,254.00	9,143.44	914.00	20,488.98	2,049.00	14,251.41	1,425.00	56,424.70	5,642.00	9,163.59	917.00	3,412.10	341.00	69,000.39	6,900.00	
16 OTHER-COSTS																			
1601 0000 Expert Cost Applied													3,136.09	314.00			3,136.09	314.00	
Stheli C.		-	2,223.96	222.00	3,981.19	398.00		-		-	6,205.15	620.00		-		-	6,205.15	620.00	
Amaro Cavie	1,906.42	191.00	3,537.60	354.00	2,557.81	256.00	3,688.17	369.00	2,965.35	297.00	14,655.35	1,467.00		-		-	14,655.35	1,467.00	
Linan Arcas		-	1,459.37	146.00		-		-		-	1,459.37	146.00		-		-	1,459.37	146.00	
Sheen Tomas		-		-	21,151.90	2,115.00	6,992.47	699.00	15,230.63	1,523.00	43,375.00	4,337.00		-		-	43,375.00	4,337.00	
Sheen U.O. 2001		-		-		-	418.06	42.00		-	418.06	42.00		-		-	418.06	42.00	
Cash Book Lima		-		-		-	371.00	37.00	187.14	19.00	558.14	56.00		-		-	558.14	56.00	
Chavarri		-		-		-		-	100.00	10.00	100.00	10.00		-		-	100.00	10.00	
Sub-total BL 16	1,906.42	191.00	7,220.93	722.00	27,690.90	2,769.00	11,469.70	1,147.00	18,483.12	1,849.00	66,771.07	6,678.00	3,136.09	314.00	-	-	69,907.16	6,992.00	
21 SUB-CONTRACT																			
2102 Lease of satellite segment		-		-		-	249,666.57	11,987.00		-	249,666.57	11,987.00		-		-	249,666.57	11,987.00	
P.O. 20439		-		-		-		-		-		-		-		-		-	
Sub-total Budget Line 21	-	-	-	-	-	-	249,666.57	11,987.00	-	-	249,666.57	11,987.00	-	-	-	-	249,666.57	11,987.00	
31 INDIVIDUAL FELLOWSHIPS																			
3100 0000 Stipend/Medical		-		-		-		-	35,200.24	3,520.00	35,200.24	3,520.00	7,971.76	797.00		-	43,172.00	4,317.00	
Sub-total Budget Line 31	-	-	-	-	-	-	-	-	35,200.24	3,520.00	35,200.24	3,520.00	7,971.76	797.00	-	-	43,172.00	4,317.00	
32 GROUP FELLOWSHIPS																			
3200 0000 Stipend/Travel/Tuition/Misc		-		-		-		-		-		-	300.00	30.00		-	300.00	30.00	
Sub-total Budget Line 32	-	-	-	-	-	-	-	-	-	-	-	-	300.00	30.00	-	-	300.00	30.00	
Sub-total Budget Line 3900	-	-	-	-	-	-	-	-	35,200.24	3,520.00	35,200.24	3,520.00	8,271.76	827.00	-	-	43,472.00	4,347.00	

Project RLA/98/019 Breakdown of Expenditures
As at 30 September 2003

	1999		2000		2001		2002		2003		TOTAL		Expected for 2003		U.O 2000 to 2002		Grand Total		
	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	Disbursement	AOS	
45 PROCUREMENT																			
4501 0000 Expendable equipment																			
Cash Book - Lima	-	-	2,175.31	218.00	225.91	23.00	263.50	26.00	555.91	56.00	3,220.63	323.00	-	-	-	-	3,220.63	323.00	
P.O. 00525	-	-	1,213.04	121.00	-	-	-	-	-	-	1,213.04	121.00	-	-	-	-	1,213.04	121.00	
P.O. 00526	-	-	529.69	53.00	-	-	-	-	-	-	529.69	53.00	-	-	-	-	529.69	53.00	
P.O. 00526 U.O. 2000	-	-	-	-	357.50	36.00	-	-	-	-	357.50	36.00	-	-	-	-	357.50	36.00	
P.O. 00541	-	-	134.81	13.00	-	-	-	-	-	-	134.81	13.00	-	-	-	-	134.81	13.00	
P.O. 00565	-	-	426.62	43.00	-	-	-	-	-	-	426.62	43.00	-	-	-	-	426.62	43.00	
P.O. 00622	-	-	797.10	80.00	-	-	-	-	-	-	797.10	80.00	-	-	-	-	797.10	80.00	
Airfreight	-	-	-	-	-	-	39.20	4.00	-	-	39.20	4.00	-	-	-	-	39.20	4.00	
Clearance	-	-	-	-	-	-	39.20	4.00	-	-	39.20	4.00	-	-	-	-	39.20	4.00	
Translation	-	-	-	-	-	-	42.25	4.00	-	-	42.25	4.00	-	-	-	-	42.25	4.00	
Sub-total Budget Line 4501	-	-	5,276.57	528.00	583.41	59.00	384.15	38.00	555.91	56.00	6,800.04	681.00	-	-	-	-	6,800.04	681.00	
4502 0000 Non-expendable equipment																			
P.O. 00525	-	-	6,815.05	682.00	-	-	-	-	-	-	6,815.05	682.00	-	-	-	-	6,815.05	682.00	
P.O. 00537	-	-	460.00	46.00	-	-	-	-	-	-	460.00	46.00	-	-	-	-	460.00	46.00	
P.O. 00694	-	-	648.03	65.00	-	-	-	-	-	-	648.03	65.00	-	-	-	-	648.03	65.00	
CB Lima P.O. 00525 U.O. 2000	-	-	-	-	1,344.78	134.00	-	-	-	-	1,344.78	134.00	-	-	-	-	1,344.78	134.00	
Sub-total Budget Line 4502	-	-	7,923.08	793.00	1,344.78	134.00	-	-	-	-	9,267.86	927.00	-	-	-	-	9,267.86	927.00	
4503 0000 OPS & MTCE cost of equipment																			
Cash Book - Lima	-	-	705.08	71.00	-	-	-	-	-	-	705.08	71.00	-	-	-	-	705.08	71.00	
Sub-total Budget Line 4503	-	-	705.08	71.00	-	-	-	-	-	-	705.08	71.00	-	-	-	-	705.08	71.00	
4504 Ajuste de Auditoria																			
Costums Clearance	-	-	-	-	-	-	75,862.90	7,586.00	3,103.78	310.00	78,966.68	7,896.00	-	-	-	-	78,966.68	7,896.00	
Airfreight	-	-	-	-	-	-	106.40	11.00	-	-	106.40	11.00	-	-	-	-	106.40	11.00	
Refund	-	-	-	-	-	-	-	-	1,151.22	115.00	1,151.22	115.00	-	-	-	-	1,151.22	115.00	
P.O. 10569	-	-	-	-	365,009.31	16,600.00	2,126,055.08	35,266.00	1,158,681.80	17,380.00	3,649,746.19	69,246.00	-	-	-	-	3,649,746.19	69,246.00	
P.O. 10569 Change order	-	-	-	-	-	-	222,835.20	3,343.00	55,708.80	836.00	278,544.00	4,179.00	-	-	-	-	278,544.00	4,179.00	
Sub-total Budget Line 4504	-	-	-	-	365,009.31	16,600.00	2,424,859.58	46,206.00	1,216,343.16	18,411.00	4,006,212.05	81,217.00	-	-	-	-	4,006,212.05	81,217.00	
4506																			
PO 20668	-	-	-	-	-	-	4,067.60	244.00	-	-	4,067.60	244.00	-	-	-	-	4,067.60	244.00	
PO 20668 UO 2001	-	-	-	-	-	-	-	-	36,608.40	2,197.00	36,608.40	2,197.00	-	-	-	-	36,608.40	2,197.00	
Sub-total Budget Line 4506	-	-	-	-	-	-	4,067.60	244.00	36,608.40	2,197.00	40,676.00	2,441.00	-	-	-	-	40,676.00	2,441.00	
4598																			
Liability Insurance	-	-	-	-	-	-	162.70	7.00	-	-	162.70	7.00	-	-	-	-	162.70	7.00	
Sub-total Budget Line 4598	-	-	-	-	-	-	162.70	7.00	-	-	162.70	7.00	-	-	-	-	162.70	7.00	
Sub-total Budget Line 4500	-	-	13,904.73	1,392.00	366,937.50	16,793.00	2,429,474.03	46,495.00	1,253,507.47	20,664.00	4,063,823.73	85,344.00	-	-	-	-	4,063,823.73	85,344.00	
53 SUNDRY																			
5301 Sundry																			
Courier	602.10	61.00	791.63	79.00	1,085.70	109.00	38.53	4.00	-	-	2,517.96	253.00	3,010.25	301.00	-	-	5,528.21	554.00	
Cash book Lima	-	-	428.52	43.00	1,893.51	189.00	2,256.61	226.00	1,389.75	139.00	5,968.39	597.00	-	-	-	-	5,968.39	597.00	
Telephone	-	-	726.23	72.00	-	-	-	-	-	-	726.23	72.00	-	-	-	-	726.23	72.00	
Interpret	-	-	3,550.00	355.00	-	-	-	-	-	-	3,550.00	355.00	-	-	-	-	3,550.00	355.00	
Document	-	-	200.00	20.00	-	-	-	-	-	-	200.00	20.00	-	-	-	-	200.00	20.00	
Transport	-	-	47.62	5.00	-	-	-	-	-	-	47.62	5.00	-	-	-	-	47.62	5.00	
Comm/costs	-	-	-	-	5,573.00	557.00	6,205.00	621.00	-	-	11,778.00	1,178.00	-	-	-	-	11,778.00	1,178.00	
Sub-total Budget Line 5300	602.10	61.00	5,744.00	574.00	8,552.21	855.00	8,500.14	851.00	1,389.75	139.00	24,788.20	2,480.00	3,010.25	301.00	-	-	27,798.45	2,781.00	
SUB - TOTAL	2,508.52	252.00	176,574.98	17,659.00	503,507.73	30,450.00	2,778,510.97	68,421.00	1,389,258.75	34,240.00	4,850,360.95	151,021.00	37,599.93	3,761.00	3,412.10	341.00	4,891,372.98	155,123.00	
Administrative Cost UNDP 2% on Disbursements and U.O.	50.17	-	3,531.50	-	10,070.15	-	55,570.22	-	27,785.18	-	97,007.22	-	752.00	-	68.24	-	97,827.46	-	
TOTAL	2,558.69	252.00	180,106.48	17,659.00	513,577.88	30,450.00	2,834,081.19	68,421.00	1,417,043.93	34,240.00	4,947,368.17	151,021.00	38,351.93	3,761.00	3,480.34	341.00	4,989,200.44	155,123.00	

Agenda Item 4: Analysis of the situation of the REDDIG implementation and considerations about the closure of project RLA/98/019

4.1 When discussing this agenda item, pending issues with Contractor SEEE, which affect the total implementation of the REDDIG, the finalization of ICAO/SEEE Contract, and, consequently, the finalization of project RLA/98/019 activities, were discussed first.

4.2 In this regard, the Meeting was informed that, once the network acceptance tests (NAT) were carried out, the Contractor considered that his job had concluded, and that pending problems identified during these tests were the responsibility of ICAO and of participating States.

4.3 These problems affected the implementation of the backup network, and of the transference of services, which had not yet been done according to contractual conditions. Likewise, a series of failures in the equipment of the different nodes and NCCs were evidenced. Also, the Contractor should assume his contractual responsibilities to provide the corresponding support during the warranty period. It was informed as well that, in view that the transference of services was not done according to the contract, it was difficult to establish, in common agreement with the Contractor, a list of pending issues, which made difficult to continue with the final acceptance tests, as stipulated in the contract, requiring of a protocol as well as of mutually agreed procedures between ICAO and SEEE.

4.4 It was also informed that a coordination meeting had been requested to the Contractor in several opportunities to discuss the issues indicated below, and that no favorable answer on this particular was received. These issues were:

- a) Equipment failure, warranty of the equipment and systems, and technical support.
- b) Incomplete work for the implementation of the Back-up Network.
- c) Final acceptance tests.
- d) Financial claims.

Equipment failure, equipment and systems warranty; and technical support

4.5 The Meeting was informed that a detailed list of actions to be taken was provided to the contractor, according to contractual conditions, about the equipment that had presented failure (see Appendix A of the Report of Agenda Item 2). The contractor was requested regarding his support during the warranty period of the system, to establish competent technical personnel in South America, and one Office in Lima, in correspondence with clause 17 of the Contract. Also, it was requested to apply the contractual procedures specified in clause 16.3 during the warranty period, procedures that cover all the aspects against defects in the design, manufacturing, labor force, installation, malfunctioning, etc. Up to this moment, it had not been possible to reach and agreement with the contractor.

Incomplete work for the Implementation of the Back-up Network

4.6 The Contractor, within the coverage of his work, had the responsibility of implementing the backup network for the satellite segment, based in ISDN circuits. The contractor, in the NAT tests, indicated that, not being available ISDN services access, it could not be possible to test the backup network. However, the Project verified that the contractor had not designed nor configured the system to implement the backup network. Therefore, his statement indicating that he was not able to test this network because the system was not configured to execute these tests, was not true. The contractor was contacted in many opportunities and requested to complete his work, answering that this would be done with an additional cost of US\$45,000.00.

Final Acceptance Tests

4.7 The Meeting was informed that the contractor was requested to coordinate this issue as soon as possible, having no positive answer in this regard. These tests should be implemented starting December 2003. It was indicated that the Administrations would be informed on due time about the agreements reached with SEEE and about corresponding procedures to be followed.

Financial Claims

4.8 It was informed that the contractor had presented a series of claims about additional expenditures incurred due to the delay in the implementation of the contract by ICAO and the States. These claims were:

a)	Guayaquil Node	US\$ 23,855
b)	Manaus Node	US\$ 31,200
c)	Additional administrative costs Due to the project extension	US\$ 38,316

4.9 In this regard, Brazil indicated that, in view of the way that the provision of parts for the Manaus Node occurred, these additional charges were unacceptable. The Meeting was informed that ICAO also considered these charges unacceptable and unjustified, and that negotiations in this regard with SEEE are presently under way.

4.10 The Meeting was informed, likewise, that SEEE had already received all the payments stipulated in the contract; however, the performance bonus on the 10% of the Contract price was still available. The Meeting, unanimously agreed that ICAO should adopt a firm position, backed up by the Contract signed with SEEE, so the contractor keeps contractual conditions and implements the REDDIG according to what it expected. In this regard, the Meeting formulated the following Conclusion:

Conclusion RCC6/2- Solution to pending problems and finalization of REDDIG implementation.

In order to conclude in good terms the REDDIG implementation, that ICAO Technical Cooperation, as a matter of urgency and before the final acceptance tests (FSAT):

- a) coordinates and demands Contractor SEEE the full compliance of his contractual responsibilities, to solve the present problems and those that could be identified from now up to the execution of the FSAT in each site, and
- b) maintains the States participant of the project permanently informed about SEEE contractual compliance.

Pending installations by the States

4.11 On the other hand, the meeting took note that different administrations still have pending issues to finalize the access to communications facilities, necessary to complete the implementation of the backup network and the SBAS augmentation network from CSTB. In this regard, the Meeting was informed that, regarding the backup network, Chile should complete the works to permit the access to the ISDN service; likewise, Bolivia with Paraguay, and Venezuela with Ecuador, to finalize the rental of the digital dedicated circuits with interface V.35. On the other hand, Guyana and Suriname should implement a VPN/IP access for the backup network. In **Appendix A** to this agenda item, the topology of the backup network is being presented.

4.12 Regarding the issues for the SBAS network from CSTB, the aeronautical administrations of Chile and Colombia should finalize the works for the implementation of communication links to connect CSTB installation to the respective REDDIG nodes.

4.13 With regard to the above, the Meeting formulated the following Conclusion:

Conclusion RCC6/3 - Pending works from some States regarding the backup network and SBAS augmentation for CSTB.

That, as matter of urgency:

- a) to facilitate the implementation of the backup network, Bolivia, Chile, Ecuador, Guyana, Paraguay, Suriname and Venezuela complete, as soon as possible, the communication installations indicated in **Appendix A** to the report of this agenda item, and
- b) Chile and Colombia complete, as soon as possible, the communications links between the CSTB installations and the corresponding REDDIG node.

4.13.1 Bolivia indicated that, regarding the above conclusion, they have plans to implement an ISDN access instead of renting a dedicating line. In this regard, it was agreed that the Project should consider this issue when implementing the backup network.

REDDIG operations manual

4.14 The Meeting took note that the first edition of the referred manual is conformed by two parts, one is based on the "Operational & Maintenance Manual" edition B/B1 of the manufacturer, and, the other part contains administrative procedures. Said manual (see **Appendix B** to this part of the report), is to be finalized for its prompt application. In this regard, Uruguay provided material about the spare parts management, which will be taken into account for the elaboration of the corresponding part of the REDDIG Operations Manual.

Problems reported with the AFTN messages traffic

4.15 Through information presented by Argentina and Brazil, the Meeting took note that some circuits of the AFTN network presented sporadic problems of message mutilation. In this regard, the Meeting was informed that the project knew about this matter and is presently carrying out tests to identify the problem, and results of said tests are expected in a two-week period.

Transference of the NCC from Lima to Manaus

4.16 Even though this matter is contemplated within the budget of the new project RLA/03/901, the Meeting proceeded to discuss it under this agenda item. In this regard, it was noted that the Contractor SEEE had presented a new quotation with a cost of US\$ 150,000, which is a higher amount to the one quoted before during the RCC/3 Meeting, of US\$ 115,000. This made the Meeting consider the need to investigate alternatives in the market that would permit carrying out the transference of the NCC to Manaus with a more reasonable cost. On the other hand, it was indicated as well that there was no hurry to do this transference, and that it could be done after the warranty period of the SEEE contract.

4.17 Additionally, and considering the favorable results obtained during the sun outage period, one of the States suggested the possibility of maintaining the NCC in Lima. In this regard, the Meeting ratified the decision made in conclusion RCC 3/3 about assigning the principal management node of the REDDIG in the Manaus node and, as alternate, in the Ezeiza node.

Closure of Project RLA/98/019

4.18 The meeting recognized that, if it is true that the project had favorably achieved its objectives, there are still pending issues related with the ICAO/SEEE contract, as well as other issues related to the needs of administrative support, which did not permitted meanwhile to close the project. On the other hand, it was agreed that it would be convenient to program the project closure, if it was the case, once the final site acceptance tests (FSAT) take place.

Project Final Report

4.19 The meeting made a general evaluation of the project according the UNDP procedures. The final result of this evaluation is presented as **Appendix C** to this part of the report.

REDDIG BACK-UP NETWORK

Topology of the ISDN Network

NODE	ALT 1
SAEZ	SUMU
SUMU	SAEZ
SBMN	SBCT
SBCT	SBMN
SBRF	SOCA
SOCA	SBRF
SPIM	SKED
SKED	SPIM
SCEL	SPIM

Dedicated Line (V.35)

NODE	ALT 1
SVM I	SEGU
SEGU	SVM I
SLLP	SGAS
SGAS	SLLP

VPN (IP)

NODE	ALT 1
SMPM	SYGC
SYGC	SMPM

REDDIG Operations Manual

(Refer to Appendix C of WP/05)

FINAL REPORT
UNDP/ICAO PROJECT RLA/98/019
Implementation of the SAM Digital Network (REDDIG)

Basic information of the project (Prepared by the project management)

Number and title of the project:	RLA/98/019 Implementation of the SAM Digital Network (REDDIG)
Designated institution:	ICAO
Project initiation date:	
Originally planned	1 January 1999
Effective	2 May 2000
Project termination date:	
Originally planned	31 December 2000
Effective	30 July 2004
Total budget (dollars):	
Initial amount:	3,887,300
Last approved revision	5,145,228
Period covered by the report:	2002-2003

PART I: NUMERICAL ASSESSMENT

Please assess the pertinence and performance of the program or project using the following scale:

1 – Completely satisfactory

2 – Satisfactory

3 – Unsatisfactory, with some positive elements

4 – Unsatisfactory

X – Not applicable

Please indicate your answers in the corresponding column.

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	URU	VEN	AVRG
1. ¿How do you evaluate the pertinence level of the project in relation to priorities in the development of the SAM region?	1	1	1	1				1			1		1		1
2. Given the project objectives, ¿assistance was given to pertinent institutions?	1	1	1	2				1			2		1		1
3. Using the following indicators, please evaluate the contribution of the results of immediate objectives achievement <u>a/</u> :															
Indicator 1 Digital network for the aeronautical fixed telecommunications service in operation, on the basis of fifteen nodes installed in predetermined locations.	1	1	1	1				1			1		1		1
Indicator 2 Operation of the network under the direct management of the project and alternatives proposal for the post-project management.	2	2	2	2				3			2		2		2
4. Evaluate the achievement of the desired results.	2	2	2	2				2			2		2		2
5. ¿Were the project management mechanisms adequate?	1	2	2	2				2			2		2		2

SUBSTANTIVE APPROACH	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	URU	VEN	AVRG
6. Were project resources sufficient (financial, physical and human) regarding to:															
a) Quantity?	2	1	2	2				2			2		2		2
b) Quality?	2	2	2	2				3			2		2		2
7. Project resources to produce expected results were efficiently used?	1	1	2	2				3			2		1		2
8. Was the project efficient regarding costs, in comparison to similar projects?	1	1	2	1				2			2		1		1
9. On the basis of the project work plan, how would you evaluate the project opportunity degree regarding to:															
a) Achievement of products and initial results?	1	1	1	1				2			3		1		1
b) Delivery of supplies?	2	2	2	2				2			2		3		2
GLOBAL EVALUATION OF THE PROGRAM OR PROJECT	2	2	2	2				2			2		2		2

Please explain the foundation of your evaluation, which does not have to be limited to the criteria of pertinence nor performance as above evaluated. This could not coincide with the above evaluation. Regarding the last year of the project, an estimation of the possible project success should be included, as well as its pertinence or performance.

The Contract for the provision of a digital network for the fixed aeronautical service in the SAM region (REDDIG) was signed by SEEE (France) and ICAO (Acting according to the mandate of the Governments of Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, France, Guyana, Paraguay, Peru, Suriname, Uruguay and Venezuela) on 28 September 2001, initiating in this way the activities for its implementation.

Technical specifications were revised by the Project Office in two design review meetings. Additionally, site survey visits were carried out to the locations where the nodes would be installed. Custom clearance process of indoors and outdoors equipment was carried out.

Subsequently, the installation of the equipment was done, the contract with the supplier of the satellite segment was signed, training courses were carried out, as well as the network start-up, PSAT and NAT tests.

Additionally, the project prepared a transitory scheme for the REDDIG management, through a technical cooperation project, in order to establish in two (2) years the definite management scheme.

It can be considered that, despite of difficulties encountered by the project, the results are highly satisfactory.

PART II: DESCRIPTIVE EVALUATION

1. Which were the principal achievements of the project in terms of expected results, during the year covered by the evaluation? As possible, please include an evaluation in terms of possible effects, of sustainability, and of contribution to capacity development.

Under project RLA/98/019 States received support for the purchase, installation, start-up, management and initial future operation of a digital network addressed to modernizing communications of the aeronautical fixed services in support of the CNS/ATM system development considered in the CAR/SAM FASID document.

This network, known as the South American Digital Network (REDDIG) has satellite resources as principal means of transmission, using VSAT technology, TDMA access. It is a multi-service / multi-protocol digital network, of open architecture that uses the Frame Relay protocol for the implementation of voice and data communications. The REDDIG gathers all the CNS/ATM present and future requirements, and it will permit a smooth transition to data communications environment where the aeronautical applications of ATM computers will be integrated using the Aeronautical Telecommunications Network (ATN).

The original topology of the network comprises 15 nodes that cover, with the exception of Panama, all the SAM States. The special satellite PanAmSat PAS-1R is being used, and it has communication to any earth node using public ISDN services, in case that the satellite is missing. Due to its characteristics, the REDDIG is interconnected at different levels with other digital networks, such is the case of the present plans being carried out to interconnect the future MEVA with a computer network operating in the CAR Region with the REDDIG.

The REDDIG is being considered as the awaited solution in the region, which would give an answer to all AFS problems and would maintain the quality and necessary capacity to attend ATM communications requirement to be established in the following 10 years.

2. Which were the principal questions and problems that influenced in the achievement of the project results?

Complexity and necessary co ordinations to clear from customs the equipment were far beyond the expectative established in the REDDIG implementation program. Likewise, the budget had to be revised in several occasions, cutting human resources of the project in order to reduce costs, situation which affected co ordinations with the States.

On the other hand, some States had problems in managing with their Administrations the on-time payment of the cost-sharing contributions, affecting several activities in the different stages of the project.

ICAO, as an international organization acting by mandate of the States cannot assume contractual obligations that involve civil responsibility clauses. This impediment endangered the signature of a contract for the lease of the satellite segment with PanAmSat.

3. What learning (positive or negative) can be extracted from the experience of the project?

Experience collected by ICAO in the implementation of a multinational project with these characteristics will be very valuable in the future. With the purpose of having an adequate coordination in future projects of this kind, it is important to clearly define in the project document the responsibilities of each actor in the process, i.e. ICAO Central Office, Regional Office, International Coordinator, States, Contractor, etc.

The States of the region have different process to clear goods from customs, which can vary from a one-week period to more than two months duration. Some States require that their technical cooperation projects be accredited before the Foreign Affairs Ministries in order to have the privileges granted to United Nations Organizations. Before establishing an implementation timetable, a careful study on the nationalization process in each State should be carried out in order to establish realistic times for these processes.

Likewise, ICAO limitations to sign contracts with civil responsibility clauses should be taken into account.

4. Which are the opinions of the States concerning the project?

The REDDIG is seen as an awaited solution that will provide them answer to all the problems of the present fixed communications system and will maintain necessary service quality and capacity to cover all communications requirements in order to implement in the next 10 years the ICAO CNS/ATM systems.

5. Provide any other information that can support or clear out your evaluation of the project. You can include annexes if necessary.

PARTE II: Project Synoptical Chart

Title and number of the program or project:	RLA/98/019 – Implementation of the South American Digital Network (SAM REDDIG)	Management dispositions:	
Designated institution:	ICAO	Period covered:	1999 - NOV 2003
EVALUACIÓN GLOBAL			
<p>The SAM REDDIG was implemented with some pending issues indicated in this report. For the implementation of the REDDIG, the following activities were implemented and a new regional technical cooperation project was established with ICAO for the rental of the satellite segment for five years and for the initial administration of the REDDIG for a period of two years while a definite institutional arrangement is established.</p> <p>Evaluation of the offers and award of enterprise SEEE Signature of the contract First design review meeting (DRM1) Visits to the installation locations (Site Surveys) Second design review meeting (DRM2) Custom clearance of indoor and outdoor equipment Factory acceptance tests Contract with the supplier of the satellite segment (PanAmSat) Installation and start-up Provisional site acceptance tests (PSAT) Network acceptance tests (NAT) REDDIG Operation Manual</p>			

FINANCIAL SUMMARY			
Funds sources	Budget (thousand dollars)	Expenditures (thousand dollars)	Execution rate (%)
The Governments detailed below participated in the funding of expenditures:			
Argentina	336,8		
Bolivia	336,8		
Brazil	1,054,5		
Chile	336,8		
Colombia	336,8		
Ecuador	336,8		
France	336,8		
Guyana	336,8		
Paraguay	336,8		
Peru	336,8		
Suriname	336,8		
Uruguay	336,8		
Venezuela	336,8		
Interests	48,7		
TOTAL	5,147,0	5,053.3	98%

SUMMARY OF RESULTS		
Immediate Objectives	Indicators	Achievements
<p>Immediate Objective No. 1</p> <p>Implementation of a digital network for the aeronautical fixed services in the SAM Region, intended to improve air navigation services and to provide a digital platform in support of the development of future aeronautical telecommunications networks under the ICAO CNS/ATM concept.</p>	<p>Digital network for fixed aeronautical telecommunication services under operation, on the basis of fifteen nodes installed in predetermined locations.</p>	<p>The digital network for the fixed aeronautical service in the SAM Region, although with some pending issues indicated in this report, was implemented.</p>
<p>Immediate Objective No. 2</p> <p>Initial management of the REDDIG by the project, and establishment of a multinational mechanism for its final management.</p>	<p>Digital network for fixed aeronautical services in operation, on the basis of fifteen nodes installed in predetermined locations.</p>	<p>The project carried out the initial management of the REDDIG and established a new technical cooperation project in order to lease the satellite segment for five years and to manage the REDDIG for (2) two years, while the definite multinational arrangement is implemented.</p>

Annual milestones	Achievement of results
Immediate Objective No. 1	Implementation of a digital network for the fixed aeronautical service in the SAM Region, intended to improve air navigation services and to provide a digital platform in support of the development of future aeronautical telecommunications networks under the ICAO CNS/ATM concept.
1.1 Technical specifications of the digital network approved.	Technical specifications of the SAM digital network were approved unanimously by the States participating in the project during the Fourth Informal Meeting on the SAM Digital Network Implementation (REDDIG/4), carried out in Lima, from 4 to 8 September 2000.
1.2 Tender process carried out for the provision of the digital network installed under a turnkey contract.	The tender process was carried out and award was granted to enterprise SEEE (France), ICAO and SEEE signed the contract on 28 September 2001.
1.3 Conditions for the maintenance and operation of the REDDIG prepared.	Manufacturer manuals about instructions were evaluated, and comments and corresponding amendments carried out by the contractor.
1.4 REDDIG Maintenance personnel in each country prepared.	The following training courses were carried out under the auspices of the project: <ol style="list-style-type: none"> 1. REDDIG training course in Spanish, Santafé de Bogotá, from 13 to 24 January 2003 2. Leveling course on management of VSAT network and open architecture networks, Santafé de Bogotá, from 6 to 10 January 2003, offered by the Colombian Administration 3. REDDOG training course in English, Recife, Brazil, from 27 January to 7 February 2003. 4. REDDIG practical course (Ezeiza, Argentina, August 2003)
1.5 REDDIG installed and under operation.	Although some issues indicated in this report are still pending, the SAM REDDIG was installed and started operations on 1 October 2003.

Annual milestones	Achievement of results
Immediate Objective No. 2 Initial management of the REDDIG by the project, and establishment of a multinational mechanism for its subsequent management.	
2.1 REDDIG initially managed by the project.	Project RLA/98/019 initially managed the SAM REDDIG from the Lima NCC since its star-up. Afterwards, this Administration will be assumed by the new regional project.
2.2 Multinational mechanism established for the final REDDIG management.	The States members of the REDDIG agreed on the establishment of a new technical cooperation project with ICAO, in order to manage the SAM REDDIG for two (2) years, while the definite multinational mechanism is established.

- end -

Agenda Item 5: Follow-up on co ordinations for the initiation of project RLA/03/901 and its corresponding activation

5.1 Under this agenda item, the Meeting was informed about the initial activities carried out under project RLA/03/901, which has three immediate objectives, oriented to prepare the proposal for the definite multinational entity for the REDDIG management, the REDDIG management for two years by the project, and the planning and implementation of the CNS/ATM applications in the REDDIG platform.

5.2 The Meeting was informed about the importance of counting on due time with the cost-sharing contributions that permit ICAO to sign the contract with the satellite segment supplier, which deadline had been established on 15 June 2003.

5.3 In **Chart # 1** below, the situation of the deposit made by the States participating in project RLA/03/901 is being presented:

Chart # 1
Situation of the cost-sharing contributions deposits
Project RLA/03/901 SAM REDDIG

State	2003 (In Thousand USD)	
	Quota	Amount Deposited
Argentina	50,4	50,4
Bolivia	39,6	
Brazil	123,8	123,8
Chile	40,0	40,0
Colombia	49,8	
Ecuador	40,9	40,9
France	34,8	33,9
Guyana	34,3	
Paraguay	35,4	42,6
Peru	49,6	49,6
Suriname	34,3	
Uruguay	47,5	47,5
Venezuela	44,2	44,2
Total	624,5	472,9

5.4 The Meeting took note about the situation of the cost-sharing contributions deposit, and pointed out the importance that the States deposit on due time their contributions in order to not affect the normal activities of the project, and the following conclusion was formulated:

CONCLUSION RCC 6/4 Cost-sharing contributions to project RLA/03/901

- a) That the States that had not yet deposited their cost-sharing contributions corresponding to year 2003, make their best efforts to deposit their contributions
- b) That the States take necessary budget provisions to deposit on due time their cost-sharing contributions corresponding to year 2004, which should be deposited before 1 July 2004.

Satellite segment lease with PanAmSat

5.5 On the other hand, the Meeting was informed that the contract for the lease of the satellite services contains a provision of indemnification, to which the Contracting Party (i.e. OACI), as responsible of any obligation generated inter-alias of the improper use of the network, as infringing author rights, transmission of libelous, indecent or obscene messages, etc.

5.6 In this regard, ICAO acts in the contract with PanAmSat as facilitating entity in representation of the contracting States of the REDDIG; therefore, the relevant responsibilities in the above context are naturally conferred to the final users of the REDDIG, i. e. the Contracting States.

5.7 For this reason, ICAO requested the States, through State Letter. SA6029 dated 7 October 2003, to sign a form to indemnify and maintain ICAO immune against all claims and responsibilities that are generated of, or in relation to, the use of the facilities to be supplied by PanAmSat to the States beneficiaries of the REDDIG Project.

5.8 In order to not interrupting the REDDIG services, ICAO proceeded to extend the previous contract with PanAmSat for a period of three months, up to 31 December 2003, while the States send the form duly completed to permit ICAO subscribing the contract for five years.

5.9 The Meeting took note that, presently, the only States that still have pending their answers are Colombia, Ecuador and Venezuela, and it established the following conclusion:

CONCLUSIÓN RCC 6/5 Signature of indemnification agreement

That the States that have not done it yet, to proceed to send to ICAO, duly signed, the indemnification agreement, requested by ICAO through State Letter SA6029 dated 7 October 2003, in order to permit ICAO proceeding with the signature of the contract with PanAmSat for the lease of the satellite segment.

Administrative support for the project

5.10 Likewise, the Meeting was informed that project RLA/03/901 was conceived considering the assignment of the REDDIG Administrator from its initiation in Manaus. However, and until a satisfactory solution is found for the transfer of the NCC from Lima to Manaus, it will be necessary to maintain the assignment of the REDDIG Administration located in Lima, which will require the corresponding secretarial support. Therefore, the Meeting approved that, without incrementing the total amount of the project, the necessary provisions be made to include the administrative support (BL 13).

Revision of the project budget, decreasing Colombia's contribution

5.11 The Meeting proceeded to examine one working paper informing about the position of Colombia regarding its participation in project RLA/03/901. In this regard, the meeting took note that Colombia maintained its position to participate with the satellite segment payment, and also of the Memorandum of Understanding proposed by Colombia.

5.12 In this regard, and considering what was expressed in RCC/5 Meeting, in the sense that Colombia had not the capacity to be totally integrated to the project, at least it should contribute with the administrative/operational/technical services common to all the REDDIG nodes, the Meeting revised and approved the proposal of amendment "B" of the budget of project RLA/03/901, attached as **Appendix A** to this part of the report, where the participation of Colombia is excluded from the activities of the project regarding the development of consultancy services for the establishment of a multinational arrangement, as well as for the development of plan of action addressed to implement CNS/ATM applications in the REDDIG platform.

PROJECT BUDGET CORRESPONDING TO THE FUNDS IN TRUST CONTRIBUTION
(In US Dollars)

Country: Regional for South America
Project: RLA/03/901/B
Title: REDDIG Management System

Start date: 01 July 2003

Termination date: 31 December 2007

	Agencia ejecuc.	*----- M/H	TOTAL US\$	*----- M/H	2003 US\$	*----- M/H	2004 US\$	*----- M/H	2005 US\$	*----- M/H	2006 US\$	*----- M/H	2007 US\$
10													
11													
11.01													
11.51	OACI	24.0	219,300	6.0	52,900	12.0	109,900	6.0	56,500				
11.97		2.0	33,700	2.0	33,700								
		4.0	73,800			2.0	35,000	1.0	19,200	1.0	19,600		
11.99	Sub-Total	30.0	326,800	8.0	86,600	14.0	144,900	7.0	75,700	1.0	19,600		
13													
13-01	Personal Apoyo Administrativo Secretaria Bilignüe					3.0	6,000						
15	Viajes Oficiales		27,000		5,000.00		5,200		5,400		5,600		5,800
16	Costos de Misiones		60,500		12,100		12,100		12,100		12,100		12,100
19	TOTAL DEL COMPONENTE		414,300		103,700		168,200		93,200		37,300		17,900
20													
21.01	SUB-CONTRATOS Alquiler Segmento Satelital		1,156,500		231,300		231,300		231,300		231,300		231,300
29	TOTAL DEL COMPONENTE		1,156,500		231,300		231,300		231,300		231,300		231,300
40													
45.01	EQUIPO Equipo fungible	OACI	100,000		100,000								
45.02	Equipo no fungible	OACI	102,000				39,600		20,800		20,800		20,800
45.03	Operación y Mantenimiento de Equipo	OACI	10,000		2,000		2,000		2,000		2,000		2,000
45.04	Traslado del NCC de SPIM a SBMN		30,000		30,000								
45.99	Sub-Total		242,000		132,000		41,600		22,800		22,800		22,800
49	TOTAL DEL COMPONENTE		242,000		132,000		41,600		22,800		22,800		22,800
50													
53.01	Varios Gastos Varios	OACI	22,000		11,600		5,000		2,900		1,500		1,000
55.01	Gastos Administrativos	OACI	100,500		36,000		30,800		16,300		9,700		7,700
53.99	Sub-Total		122,500		47,600		35,800		19,200		11,200		8,700
59	TOTAL DEL COMPONENTE		122,500		47,600		35,800		19,200		11,200		8,700
99	TOTAL DEL PROYECTO		1,941,300		514,600		476,900		366,500		302,600		280,700

PROJECT BUDGET CORRESPONDING TO THE FUNDS IN TRUST CONTRIBUTION
(In US Dollars)

Country: Regional for South America
Project: RLA/03/901/B
Title: REDDIG Management System

Start date: 01 July 2003

Termination date: 31 December 2007

	Agencia ejecuc.	*----- M/H	TOTAL US\$	*----- M/H	2003 US\$	*----- M/H	2004 US\$	*----- M/H	2005 US\$	*----- M/H	2006 US\$	*----- M/H	2007 US\$
100	COSTOS COMPARTIDOS												
101	Costos Compartidos Gobiernos												
101.01	Argentina		174,763		50,363		34,300		33,400		29,100		27,600
101.02	Bolivia		119,863		39,563		23,100		22,400		18,200		16,600
101.03	Brasil		385,790		123,790		74,600		72,500		59,900		55,000
101.04	Chile		122,213		40,013		23,600		22,900		18,600		17,100
101.05	Colombia		156,800		41,100		30,400		31,300		27,000		27,000
101.06	Ecuador		126,713		40,913		24,500		23,800		19,500		18,000
101.07	Francia		95,363		34,763		18,100		17,500		13,300		11,700
101.08	Guyana		93,213		34,313		17,700		17,100		12,800		11,300
101.09	Paraguay		98,363		35,363		18,700		18,100		13,900		12,300
101.10	Perú		171,113		49,613		33,600		32,700		28,400		26,800
101.11	Suriname		93,213		34,313		17,700		17,100		12,800		11,300
101.12	Uruguay		160,313		47,513		31,400		30,500		26,200		24,700
101.13	Venezuela		143,613		44,213		28,000		27,200		22,900		21,300
101.99	Sub-Total		1,941,300		615,800		375,700		366,500		302,600		280,700
109	TOTAL DEL COMPONENTE		1,941,300		615,800		375,700		366,500		302,600		280,700
	BL-99 - BL 109				-101,200		101,200		0		0		0

DISTRIBUTION OF THE SATELLITE SEGMENT COST
(In thousand US Dollars)

Project: RLA/03/901/B
Title: REDDIG Management System

Cost per year USD 231,300
AOSC 2003 USD 11,300
AOSC 2004 USD 9,300
AOSC 2005 USD 4,400
AOSC 2006 USD 3,500
AOSC 2007 USD 3,500

	Bandwidth	%	Cost per State	2003		2004		2005		2006		2007	
				AOSC	Total	AOSC	Total	AOSC	Total	AOSC	Total	AOSC	Total
				Argentina	128.8	10.441	24,150	1,180	25,330	971	25,121	459	24,609
Bolivia	71.2	5.772	13,350	652	14,002	537	13,887	254	13,604	202	13,552	202	13,552
Brasil	112.0	9.079	21,000	1,026	22,026	844	21,844	399	21,399	318	21,318	318	21,318
Brasil	43.2	3.502	8,100	396	8,496	326	8,426	154	8,254	123	8,223	123	8,223
Brasil	85.6	6.939	16,050	784	16,834	645	16,695	305	16,355	243	16,293	243	16,293
Chile	73.6	5.966	13,800	674	14,474	555	14,355	263	14,063	209	14,009	209	14,009
Colombia	125.6	10.182	23,550	1,151	24,701	947	24,497	448	23,998	356	23,906	356	23,906
Ecuador	78.4	6.355	14,700	718	15,418	591	15,291	280	14,980	222	14,922	222	14,922
Francia	45.6	3.696	8,550	418	8,968	344	8,894	163	8,713	129	8,679	129	8,679
Guyana	43.2	3.502	8,100	396	8,496	326	8,426	154	8,254	123	8,223	123	8,223
Paraguay	48.8	3.956	9,150	447	9,597	368	9,518	174	9,324	138	9,288	138	9,288
Perú	124.8	10.117	23,400	1,143	24,543	941	24,341	445	23,845	354	23,754	354	23,754
Suriname	43.2	3.502	8,100	396	8,496	326	8,426	154	8,254	123	8,223	123	8,223
Uruguay	113.6	9.209	21,300	1,041	22,341	856	22,156	405	21,705	322	21,622	322	21,622
Venezuela	96.0	7.782	18,000	879	18,879	724	18,724	342	18,342	272	18,272	272	18,272
	1233.6	100	231,300	11,300	242,600	9,300	240,600	4,400	235,700	3,500	234,800	3,500	234,800

Appendix A-3 to Report on Agenda Item 5
COST-SHARING CONTRIBUTIONS CALENDAR
(In US Dollars)

Is: Regional para Sudamérica
Proyecto: RLA/03/901/B
Título: Sistema de Gestión de la REDDIG

Start date: 01 July 2003

Termination date: 31 December 2007

101	<u>COSTOS COMPARTIDOS GOBIERNO</u>		Year	Month	Day	Amount	Deposit		
							Total payment	Situation	Saldo
101-01	COSTOS COMPARTIDOS GOBIERNO	Argentina	2003	Julio	01	50,363		50,363	
			2004	Julio	01	34,300			
			2005	Julio	01	33,400			
			2006	Julio	01	29,100			
			2007	Julio	01	27,600	174,763	50,363	124,400
101-02	COSTOS COMPARTIDOS GOBIERNO	Bolivia	2003	Julio	01	39,563			
			2004	Julio	01	23,100			
			2005	Julio	01	22,400			
			2006	Julio	01	18,200			
			2007	Julio	01	16,600	119,863	0	119,863
101-03	COSTOS COMPARTIDOS GOBIERNO	Brasil	2003	Julio	01	123,790		123,790	
			2004	Julio	01	74,600			
			2005	Julio	01	72,500			
			2006	Julio	01	59,900			
			2007	Julio	01	55,000	385,790	123,790	262,000
101-04	COSTOS COMPARTIDOS GOBIERNO	Chile	2003	Julio	01	40,013		40,013	
			2004	Julio	01	23,600			
			2005	Julio	01	22,900			
			2006	Julio	01	18,600			
			2007	Julio	01	17,100	122,213	40,013	82,200

Appendix A-3 to Report on Agenda Item 5
COST-SHARING CONTRIBUTIONS CALENDAR
(In US Dollars)


Is: Regional para Sudamérica
Proyecto: RLA/03/901/B
Título: Sistema de Gestión de la REDDIG

Start date: 01 July 2003

Termination date: 31 December 2007

101	COSTOS COMPARTIDOS GOBIERNO	Year	Month	Day	Amount	Deposit		
						Total payment	Situation	Saldo
101-05	COSTOS COMPARTIDOS GOBIERNO	Colombia	2003	Julio	01	41,100		
			2004	Julio	01	30,400		
			2005	Julio	01	31,300		
			2006	Julio	01	27,000		
			2007	Julio	01	27,000	156,800	0
101-06	COSTOS COMPARTIDOS GOBIERNO	Ecuador	2003	Julio	01	40,913		40,913
			2004	Julio	01	24,500		
			2005	Julio	01	23,800		
			2006	Julio	01	19,500		
			2007	Julio	01	18,000	126,713	40,913
101-07	COSTOS COMPARTIDOS GOBIERNO	Francia	2003	Julio	01	34,763		
			2004	Julio	01	18,100		
			2005	Julio	01	17,500		
			2006	Julio	01	13,300		
			2007	Julio	01	11,700	95,363	0
101-08	COSTOS COMPARTIDOS GOBIERNO	Guyana	2003	Julio	01	34,313		
			2004	Julio	01	17,700		
			2005	Julio	01	17,100		
			2006	Julio	01	12,800		
			2007	Julio	01	11,300	93,213	0
101-09	COSTOS COMPARTIDOS GOBIERNO	Paraguay	2003	Julio	01	35,363		42,550
			2004	Julio	01	18,700		
			2005	Julio	01	18,100		
			2006	Julio	01	13,900		
			2007	Julio	01	12,300	98,363	42,550

Appendix A-3 to Report on Agenda Item 5
COST-SHARING CONTRIBUTIONS CALENDAR
(In US Dollars)


Is: Regional para Sudamérica
Proyecto: RLA/03/901/B
Título: Sistema de Gestión de la REDDIG

Start date: 01 July 2003

Termination date: 31 December 2007

			Year	Month	Day	Amount	Deposit			
							Total payment	Situation	Saldo	
101	<u>COSTOS COMPARTIDOS GOBIERNO</u>									
101-10	COSTOS COMPARTIDOS GOBIERNO	Perú	2003	Julio	01	49,613				
			2004	Julio	01	33,600				
			2005	Julio	01	32,700				
			2006	Julio	01	28,400				
			2007	Julio	01	26,800	171,113	0	171,113	
101-11	COSTOS COMPARTIDOS GOBIERNO	Suriname	2003	Julio	01	34,313				
			2004	Julio	01	17,700				
			2005	Julio	01	17,100				
			2006	Julio	01	12,800				
			2007	Julio	01	11,300	93,213	0	93,213	
101-10	COSTOS COMPARTIDOS GOBIERNO	Uruguay	2003	Julio	01	47,513		47,478		
			2004	Julio	01	31,400				
			2005	Julio	01	30,500				
			2006	Julio	01	26,200				
			2007	Julio	01	24,700	160,313	47,478	112,835	
101-11	COSTOS COMPARTIDOS GOBIERNO	Venezuela	2003	Julio	01	44,213		44,203		
			2004	Julio	01	28,000				
			2005	Julio	01	27,200				
			2006	Julio	01	22,900				
			2007	Julio	01	21,300	143,613	44,203	99,410	
TOTALES:								1,941,333	389,310	1,552,023

Agenda Item 6: Other issues

6.1 Under this agenda item, the Meeting analyzed a proposal for the execution of meetings with the technical personnel of the REDDIG and the project Administrator, as a way to improve coordinations for the REDDIG management.

6.2 In this regard, the Meeting considered convenient to carry out these meetings and suggested that the first meeting take place in Manaus, before the FSATs. Likewise, ICAO was requested to consider budgetary restrictions through which Administrations go through during the first months of the year, therefore, it was requested that coordinations be done with due anticipation.

6.3 On the other hand, the Meeting was informed about a working paper presented by the AVSEC Committee of LACAC during its last Executive Committee meeting, carried out in Buenos Aires, Argentina, from 5 to 6 November 2003, where the implementation of a communications network among the different AVSEC dependencies was being proposed.

6.4 In this regard, the Executive Committee of LACAC was informed about the possibilities of using the administrative network for this purpose, avoiding the creation of the parallel network.

6.5 The Coordination Committee agreed on the possibility of using the REDDIG for this purpose. The Administrations of REDDIG States should adopt internal procedures to permit the officers in charge of the AVSEC mechanism to have access to the REDDIG administrative network in case required for coordination actions of the AVSEC activities. Likewise, it was agreed that the States that do not have REDDIG nodes could establish bilateral agreements to have access to oral communications circuits with the officers responsible for AVSEC mechanism.

6.6 Next, the Meeting considered that, in order to make the REDDIG known among the different instances of the States, it would be convenient to develop a multimedia program, using resources of project RLA/03/901.

6.7 On the other hand, the Meeting was informed that, in some States, conventional circuits are still being used as principal communication mean and that, therefore, advantages offered by the REDDIG are not being used. In this regard, the Meeting considered necessary that ATS oral services be used through the REDDIG as principal mean for communication, and that conventional circuits be maintained as backup, using them only in case of failure of the services through the REDDIG. The control to go from REDDIG means to conventional means has to be done by the technical personnel in charge of the maintenance of such services, avoiding, in this way, that the controller use both means to carry out ATS oral communications. In this regard, it was indicated that it would be convenient that the Regional Office communicate this issue to the States.