



**REDDIG RCC/4**

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**

**South American Regional Office**

**FOURTH MEETING OF THE COORDINATION COMMITTEE OF THE REDDIG  
REDDIG RCC/4**

**REPORT**

**(Lima, Peru, 30 – 31 January 2003)**

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## INDEX

i -	Index .....	i-1
ii -	History of the Meeting .....	ii-1
	Place and duration of the Meeting .....	ii-1
	Opening.....	ii-1
	Working languages .....	ii-1
	Participants and organization.....	ii-1
	List of Conclusions of the REDDIG RCC/3 Meeting.....	ii-2
iii -	List of Participants .....	iii-1
<b>Report on Agenda Item 1:</b>		
	Revision of the report of the Third Meeting of the Coordination Committee of the REDDIG.....	1-1
<b>Report on Agenda Item 2:</b>		
	Report of activities carried out since the Third Meeting of the Coordination Committee of the REDDIG.....	2-1
<b>Report of Agenda Item 3:</b>		
	Financial Status of the Project.....	3-1
<b>Report of Agenda Item 4:</b>		
	Programme of project future activities.....	4-1
4.1	Coordination with the States on subjects related to the following phase of the project	
4.2	Coordination for the activation of the new project for the system of administration of the REDDIG	
<b>Report of Agenda Item 5:</b>		
	Other issues.....	5-1

## **HISTORY OF THE MEETING**

### **1. PLACE AND DATE OF THE MEETING**

The Fourth Meeting of the Coordination Committee of the REDDIG was carried out in the ICAO South American Regional Office, in Lima, Peru, from 30 to 31 January 2003.

### **2. OPENING**

Mr. Marco Ospina, Air Transport Regional Officer, Secretary of the Latin American Commission of Civil Aviation and Director a.i. of the ICAO South American Regional Office, welcome the participants pointing out the innovative character of the REDDIG project and the difficulties that the same has overcome to achieve success, very near to conclude successfully, likewise he pointed out the importance of the agreements that should be reached in this meeting. Next, Mr. Julián Palacín, President of the Board of the Peruvian Corporation of Airports and Commercial Aviation (CORPAC), welcome the participants and pointed out the importance of the issues to be discussed.

### **3. WORKING LANGUAGES**

The languages used for the meeting discussions and documentation are Spanish and English.

### **3. PARTICIPANTS AND ORGANIZATION**

States that participated in the meeting were 9 (Argentina, Bolivia, Brazil, Chile, Ecuador, France, Guyana, Peru and Uruguay), making a total of 15 participants, including ICAO staff. The list of participants is detailed in pages iii-1 to iii-3.

Mr. Carlos Stehli, Deputy Regional Director a.i., acted as moderator, assisted by Mr. Oscar Quesada-Carboni, Technical Cooperation Regional Coordinator, and Mr. Tomas Sheen, international expert in aeronautical communications of project RLA/98/019.

**3. LIST OF CONCLUSIONS OF RCC/4 MEETING**

<b>Nº</b>	<b>Título</b>	<b>Página</b>
RCC 4/1	Pending issues to be solved by the States to guarantee the success of PSATs	2-2
RCC 4/2	Detailed breakdown of expenditures at the moment of project finalization	3-1
RCC 4/3	Technical Cooperation Regional Project RLA/03/901 – Approval of the Project Document	4-2

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## **Agenda Item 1: Report of the Third Coordination Meeting**

1.1 Under this agenda item, the Coordination Meeting took note on the agreements reached during the third Coordination Meeting of the REDDIG (RCC/3) celebrated in Lima, Peru from 06 to 07 November 2002 with the participation of eight States from the region. At this meeting the following items were discussed:

- Amendment to the REDDIG contract for the purchase of additional equipment (antenna feeder, power distribution boards and redundancy switch).
- Details about the communication expert contract.
- Obtaining of operation licences for the REDDIG nodes.
- Registries of the REDDIG stations and authorization of the access to the satellite with PanamSat.
- Follow up of the FIR Amazonica implementation.
- Installation of the REDDIG antennas.
- Update of the UPS information in the REDDIG nodes.
- Arrangements for the customs clearance process of the inside equipment (IDU) and power distribution boards (PDB) and installation.
- Installation of the power distribution boards.
- Digital interfaces of voice and circuits of the REDDIG backup network.
- Negotiation of the contract with Panamsat for the rental of satellite segment.
- Plan for the Installation, Commissioning, Training, PSAT and NAT.
- Training courses.
- WEB page of project RLA/98/019.

1.2 Likewise, an analysis of the financial situation of the project was presented, as well as a detailed breakdown of expenses incurred by the project RLA/98/019 up to 30 September 2002, including planned expenses up to 31 December 2002.

1.3 Also the RCC/3 took into consideration the report of the Task Force established during RCC/2 Meeting to discuss the options for the management of the REDDIG, with the purpose of creating as soon as possible a multinational mechanism for the definite management of the REDDIG, and of facilitating the network operation while the scheme is developed.

1.4 Likewise, the management nodes of the REDDIG were established, a provision in the new project budget for the establishment of a spare parts pool was requested, the way of distributing shared costs of the new project was defined, the payment mechanism to cover the satellite segment was established, and the incorporation of CNS/ATM applications in the REDDIG platform was requested.

1.5 It was also informed about the future activities of the project related to the installation and start-up of the REDDIG, coordination with the States for the training courses and the installation process of the indoor equipment, start-up, visits and related documents.

1.6 The Report of the Third Meeting of the Coordination Committee of Project RLA/98/019 carried out in Lima, Peru, from 6 to 7 November 2002, was distributed to the States with Letter No. SA6558 dated 13 December 2002.

1.7 In Appendix A to this agenda item conclusions adopted by the RCC/3 are being presented.

**CONCLUSIONS ADOPTED IN THE RCC/3****CONCLUSION RCC3/1      ICAO TECHNICAL COOPERATION PROJECT  
FOR THE MANAGEMENT OF THE REDDIG**

That ICAO prepare and present to the States for revision and comments a technical cooperation project document which objective would be that of assisting in the creation, as earliest as possible, of a multinational mechanism for the definite management of the REDDIG, and to facilitate the operation of the network while this scheme is being developed.

**CONCLUSION RCC3/2      DEFINITE MULTINATIONAL AGREEMENT**

That the States of the SAM region take the necessary steps to support the ICAO technical cooperation project for the establishment of a definite multinational agreement for the management of the REDDIG in order that this objective could be achieved as soon as possible and within a period of no more than two (2) years.

**CONCLUSION RCC3/3      DESIGNATION OF THE MANAGEMENT NODES  
OF THE REDDIG**

- a) The Network Control Centres (NCC) of the REDDIG will be established in the Nodes of Buenos Aires (SAEZ) and Manaus (SBMN) and, in case of contingency, in the Nodes of Montevideo (SUMU) and Bogotá (SKED) respectively; and
- b) In case that one of the pertinent States would like to install NCC nodes in SUMU and SKED, this should not imply additional costs to the project.

**CONCLUSION RCC3/4      ALTERNATIVE SOLUTIONS TO IMPLEMENT  
THE NCC IN MANAUS**

In order to implement the NCC in Manaus, that Project RLA/98/019 should study in coordination with contractor SEEE, alternative solutions for the transference of the NCC from Lima to Manaus in benefit of the REDDIG management and operation.

**CONCLUSION RCC3/5      BUDGETARY PROVISION FOR THE SPARE PARTS OF THE REDDIG**

- a) The project should have a budgetary provision for the establishment of a pool of spare parts in order that this can be administered by the future project for the REDDIG management; and
- b) The States that request spare parts should deposit in the project account the cost of those spare parts and the expenses the project incurred for their shipment and nationalization.

**CONCLUSION RCC3/6      DISTRIBUTION SCHEME OF SHARED COSTS**

That ICAO consider the following for the establishment of the project budget and the distribution of shared costs:

- a) The costs of satellite segment rental would be distributed initially taking in consideration the bandwidth used by each node shown as **Appendix A** to this item, and, afterwards, taking as a basis the real traffic of the nodes;
- b) The other project costs would be distributed in equal parts for each node.

**CONCLUSION RCC3/7      CONTRIBUTION OF THE STATES FOR THE PAYMENT OF THE SATELLITE SEGMENT**

- a) The contributions of the States to the new project should permit that ICAO Technical Cooperation covers the costs of annual rental of the satellite segment, including possible fines in case of an eventual interruption of the contract, before the established date of the contract.
- b) ICAO will consider the subscription of a rental contract that offer the best possible profitability and the least initial investment, with the possibility of making modifications or cancelling it in the moment when it is necessary.

**CONCLUSION RCC3/8      DEVELOPMENT OF CNS/ATM APPLICATIONS**

That the future technical cooperation project ensures the coordination between the REDDIG and Project RLA/98/019, Transition of CNS/ATM Systems in the CAR and SAM Regions, for the development of applications such as AMHS or other, in order that these be implemented in the REDDIG platform.

## **Agenda Item 2: Activities carried out**

2.1 Under this agenda item, the meeting received information on the REDDIG project progress since the RCC/3 meeting. In this regard it was noted that several problems occurred with the customs clearance procedures in some States, but finally all ODU and IDU equipment was cleared from customs and in most cases installed, with the exception of the Manaus node; which situation was reported during the meeting, indicating that the same was presently under installation process of the IDU equipment. The meeting noted that in average the node installation works took around 6 days per node.

2.2 The meeting was also informed on the nodes line-up with PanamSat. In this regard it was noted that this procedure for the Manaus node is not yet completed due to the installation phase of the same.

2.3 The meeting received information on the two Spanish training courses carried out in Bogotá. The first one offered by the Colombian administration was of importance as refreshment course on the subjects to be used during the second one, which was specifically developed in accordance with the contract SEEE/ICAO. In relation with this second training course, Peru in representation of other trainees presented views on the same. In this regard the following was noted:

- a) The scope of the course was very wide and ambitious for the 10 days programmed for the duration of the same.
- b) The practical part of the course was not enough and although the same was increased it is necessary to put more attention on this matter in the future if additional training courses are developed.
- c) It was noted that the main instructor did not participate on the REDDIG installation and, therefore, he had no knowledge concerning the implementation status of the project. The second instructor was not fluent in Spanish, which situation, in some moments when the translation was not available, produced difficulties.
- d) Some part of the training material translated into Spanish presented deficiencies, and in some cases the quality of the images were not so good.
- e) Due to the lack of computers some trainees had not a complete accesses to the CDs containing the training course material.

2.3.1 Concerning this matter ICAO indicated that for future training courses, which are foreseen as indicated in the report of agenda item 4, the above views would be considered to improve the performance of the same.

2.4 The meeting received information from Brazil that currently the ACC Porto Velho is integrated into the Manaus ACC facilities and that the ACC Belem would be shortly also integrated to Manaus, but they would be operationally identified by their current designation until the Amazonico ACC be activated.

2.5 The meeting in recognizing that although all the nodes would be shortly installed, there were some pending works to prepare the installations for the next step, which was the provisional site acceptance test or the so called PSAT. In this regard the meeting noting that SEEE should perform part of this pending matters, the administrations should also, prepare the user terminal equipments and circuits to be connected to the REDDIG node in such a way that the contractor had not difficulties to connect the user equipments to the REDDIG node. ICAO presented a complete picture of the SEEE pending works pointing out that due to that the installation is not finalized SEEE should resolve under the conditions of the SEEE/ICAO contract, the situation of each node in order to proceed with the PSAT. In view of the success of the PSAT is a key step to warranty the success of the REDDIG implementation, it would be necessary that the administrations should also carry out as soon as possible the pending matters to prepare the user terminal equipment and the licence to operate the node. In this regard the meeting prepared a list of pending items by State with the corresponding tasks and target dates to be performed in order to warranty the success of the PSAT. The mentioned list by State is attached as Appendix A to this part of the report. In this regard the meeting formulated the following Conclusion:

**CONCLUSION RCC 4/1- PENDING MATTERS TO BE RESOLVED BY THE STATES IN ORDER TO WARRANTY THE SUCCESS OF THE PSAT**

That:

- a) ICAO in accordance with the contract SEEE/ICAO, coordinate with the contractor the resolutions of all pending matters before proceeding with PSAT; and
- b) the States as soon as possible and not later than the target dates indicated in the List by States attached as Appendix A to this par of the report, resolve the pending matters so as to facilitate the contractor work in connecting the REDDIG node to the CAAs user terminal equipment so as to warranty the success of the PSAT.

**PREPARATORY ACTIVITIES FOR PSAT  
NODES ADJUSTMENT**

**Legend:**

**CWP: Communications Work Position**  
**COS: Type of Service.**  
**NA: Not Applicable.**  
**PDB: Power Distribution Board.**  
**TBD: To be determined.**  
**VCSS: Voice Communication Switch System.**

**Notes:**

1. Dialing Plan:
  - a) The CAA should determine the numeration plan to facilitate the access of their normal users to REDDIG network and the access of the REDDIG users to the domestic Network. To satisfy this requirement the following should be defined: trunk group, service type for calls restriction, access prefix and digits amount to do the selection. The TSD document contains information about the dialing plan.
  - b) The information to be forwarded by the CAA to the Project Office should include the following:
    - If outgoing calls insert or eliminate prefix "7".
    - If incoming calls require or not prefix "7".
    - Confirm signaling used (line and registry).
    - The number of digits required in the administrative network.
    - The directories of ATS, administrative containing authorities, and maintenance.

- END -

**TABLE 1.01: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: EZEIZA (SAEZ)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verify ATSD / ATSA interfaces programming	03-Feb-2003
	Verify CWP programming	03-Feb-2003
	Verify dialing plan programming	03-Feb-2003
	Verify cabling of new circuits to MDF	03-Feb-2003
	MDF wiring chart	03-Feb-2003
	Forward dialing plan to the Project Office	03-Feb-2003
	Other (TBD).	TBD
<b>PBX ADM.</b>	Dialing plan programming	03-Feb-2003
	Trunk group programming	03-Feb-2003
	Access restriction programming (COS)	03-Feb-2003
	Verify the operation of the new configuration	03-Feb-2003
	MDF wiring chart	03-Feb-2003
	Forward dialing plan to the Project Office	03-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynchronous circuits for tests	03-Feb-2003
	Verify operation	03-Feb-2003
	Connector wire fence	03-Feb-2003
<b>RADAR</b>	Verify the Operation of the RADAR data port and auxiliary equipment	03-Feb-2003
	Connector wire fence	03-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.02: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: MONTEVIDEO (SUMU)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	ATSd/ATSa interfaces programming	04-Feb-2003
	CWP programming	04-Feb-2003
	Dialing plan programming	04-Feb-2003
	Ports identification	04-Feb-2003
	Verification of new configuration operation	04-Feb-2003
	MDF circuits cabling	04-Feb-2003
	MDF wiring chart	04-Feb-2003
	Forward Dialing Plan to the Project Office	04-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Dialing plan programming	04-Feb-2003
	Trunk group programming	04-Feb-2003
	Access restriction programming (COS)	04-Feb-2003
	Port identification	04-Feb-2003
	Operation verification	04-Feb-2003
	MDF circuits cabling	04-Feb-2003
	MDF wiring chart	04-Feb-2003
	Forward dialing plan to Project Office	04-Feb-2003
Other (TBD)	TBD	
<b>AFTN</b>	Prepare asynchronous circuits for tests	04-Feb-2003
	Verify operation	04-Feb-2003
	Connector wire fence	04-Feb-2003
<b>RADAR</b>	Install signal diffuser (auxiliary equipment)	04-Feb-2003
	Install signaling selector (auxiliary equipment)	04-Feb-2003
	Verify operation of the installed auxiliary equipment	04-Feb-2003
	Connector wire fence	04-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.03: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: ASUNCIÓN (SGAS)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Purchase of terminals and PANASONIC E&M cards	08-Feb-2003
	Dialing plan programming	08-Feb-2003
	Trunk group programming /ATSd/ATSa interfaces	08-Feb-2003
	Ports identification	08-Feb-2003
	Verification of Operation of the new configuration	08-Feb-2003
	Cabling to MDF circuits and installation of terminals	08-Feb-2003
	MDF wiring chart	08-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Others (TBD)	TBD
<b>PBX ADM.</b>	Dialing plan programming	08-Feb-2003
	Trunk group programming	08-Feb-2003
	Access restriction programming (COS)	08-Feb-2003
	Port identification	08-Feb-2003
	Operation verification	08-Feb-2003
	Circuits cabling to MDF	08-Feb-2003
	MDF wiring chart	08-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
Other (TBD).	TBD	
<b>AFTN</b>	Prepare asynchronous circuits for tests	08-Feb-2003
	Install conversers loop/V.24 + Baudot/ASCII	08-Feb-2003
	Verification of operation	08-Feb-2003
	Connector wire fence	08-Feb-2003
<b>RADAR</b>	NA	NA
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.04: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: ANTIAGO DE CHILE (SCEL)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	ATSd/ATSa interfaces programming	11-Feb-2003
	CWP programming	11-Feb-2003
	Dialing plan programming	11-Feb-2003
	Ports identification	11-Feb-2003
	Operation verification of the new configuration	11-Feb-2003
	Cabling of MDF circuits	11-Feb-2003
	MDF wiring chart	11-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD).	TBD
<b>PBX ADM.</b>	Dialing plan programming	11-Feb-2003
	Trunk group programming	11-Feb-2003
	Access restriction programming (COS).	11-Feb-2003
	Port identification	11-Feb-2003
	Operation verification	11-Feb-2003
	MDF circuits cabling	11-Feb-2003
	MDF wiring chart.	11-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
Other (TBD)	TBD	
<b>AFTN</b>	Prepare Async circuits	11-Feb-2003
	Prepare X.25 circuits for tests	11-Feb-2003
	Verify operation	11-Feb-2003
	Connector wiring chart	11-Feb-2003
<b>RADAR</b>	Prepare circuit	11-Feb-2003
	Verify operation	11-Feb-2003
	Connector wiring chart	11-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.05: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: LA PAZ (SLLP)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Panasonic PBX installation	11-Feb-2003
	Programming of ATSD/ATSa interfaces	11-Feb-2003
	Terminals installation	11-Feb-2003
	Dialing plan programming	11-Feb-2003
	Ports identification	11-Feb-2003
	Verification of new configuration operation	11-Feb-2003
	MDF circuits cabling	11-Feb-2003
	MDF wiring chart	11-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD).	TBD
<b>PBX ADM.</b>	Dialing plan programming	11-Feb-2003
	Trunk group programming	11-Feb-2003
	Access restriction programming (COS)	11-Feb-2003
	Port identification	11-Feb-2003
	Operation verification	11-Feb-2003
	MDF cabling circuits	11-Feb-2003
	MDF wiring chart	11-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD).	TBD
<b>AFTN</b>	Prepare asynch circuits	11-Feb-2003
	Verify operations	11-Feb-2003
	Connector wiring chart	11-Feb-2003
<b>RADAR</b>	NA	NA
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.06: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: LIMA (SPIM)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verify ATSD/ATSa interfaces programming	03-Feb-2003
	Verify CWP programming	03-Feb-2003
	Verify dialing plan programming	03-Feb-2003
	Verification of the operation of the new configuration	03-Feb-2003
	Forward dialing plan to the Project Office	03-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Dialing plan programming	03-Feb-2003
	Trunk group programming	03-Feb-2003
	Access restriction programming (COS)	03-Feb-2003
	Port identification	03-Feb-2003
	Operation verification	03-Feb-2003
	Forward dialing plan to the Project Office	03-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits	11-Feb-2003
	Prepare X.25 circuits for tests	11-Feb-2003
	Verify operation	11-Feb-2003
	Connector wiring chart.	11-Feb-2003
<b>RADAR</b>	Prepare circuits	11-Feb-2003
	Verify operation	11-Feb-2003
	Connector wiring chart	11-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.07: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: GUAYAQUIL (SEGU)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verify physical configuration and SW E1 wiring	18-Feb-2003
	Install terminals	18-Feb-2003
	Dialing plan programming	18-Feb-2003
	Verification of the operation of new configuration	18-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming of the dialing plan	18-Feb-2003
	Programming of the trunk group	18-Feb-2003
	Access restriction programming (COS)	18-Feb-2003
	Operation verification	18-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits	18-Feb-2003
	Prepare X.25 circuits for tests	18-Feb-2003
	Verify operation	18-Feb-2003
	Connector wiring chart	18-Feb-2003
<b>RADAR</b>	Prepare circuits	18-Feb-2003
	Verify operations	18-Feb-2003
	Connector wiring chart	18-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.08: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: BOGOTA (SKED)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Programming of ATSD/ATSA interfaces	18-Feb-2003
	CWP programming	18-Feb-2003
	Dialing plan programming	18-Feb-2003
	Verification of the operation of new configuration	18-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming of dialing plan	18-Feb-2003
	Programming of trunk group	18-Feb-2003
	Access restriction programming (COS)	18-Feb-2003
	Port identification	18-Feb-2003
	Operation verification	18-Feb-2003
	Forward dialing plan to Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits	18-Feb-2003
	Prepare X.25 circuit for tests	18-Feb-2003
	Verify operation	18-Feb-2003
	Connector wiring chart	18-Feb-2003
<b>RADAR</b>	Prepare tests circuit	18-Feb-2003
	Verify the operation of the installed auxiliary equipment	18-Feb-2003
	Connector wiring chart	18-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.09: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: MAIQUETÍA (SVMI)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Programming of ATSD/ATSA interfaces	18-Feb-2003
	CWP programming	18-Feb-2003
	Dialing plan programming	18-Feb-2003
	Ports identification	18-Feb-2003
	Verification of operation of the new configuration	18-Feb-2003
	MDF circuits cabling	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming of the dialing plan	18-Feb-2003
	Programming of the trunk group	18-Feb-2003
	Programming of the access restriction (COS)	18-Feb-2003
	Port identification	18-Feb-2003
	Operation verification	18-Feb-2003
	MDF circuits cabling	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynchronous circuits	18-Feb-2003
	Verify operation	18-Feb-2003
	Connector wiring chart	18-Feb-2003
<b>RADAR</b>	Prepare circuit	25-Feb-2003
	Verify operation of the auxiliary equipment installed	25-Feb-2003
	Other (TBD)	25-Feb-2003
<b>UPS</b>	Install and verify operation	01-Mar-2003
<b>PDB</b>	OK	01-Mar-2003
<b>OTHER</b>	TBD	TBD

**TABLE 1.10: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: GEORGETOWN (SYGC)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verification of interfaces programming	18-Feb-2003
	CWP programming verification	18-Feb-2003
	Dialing plan programming	18-Feb-2003
	Ports identification verification	18-Feb-2003
	New configuration operation verification	18-Feb-2003
	Verify circuits cabling to MDF	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward Dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Dialing plan programming	18-Feb-2003
	Trunk group programming	18-Feb-2003
	Access restriction programming (COS)	18-Feb-2003
	Port identification verification	18-Feb-2003
	Operation verification	18-Feb-2003
	Circuits cabling to MDF	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward Dialing plan to the Project Office	18-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynchronous circuits	01-Mar-2003
	Operation verification	01-Mar-2003
	Connector wiring chart	01-Mar-2003
<b>RADAR</b>	NA	NA
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.11: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: PARAMARIBO (SMPM)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Interfaces programming	18-Feb-2003
	CWP programming	18-Febr-2003
	Dialing plan programming	18-Feb-2003
	Ports identification	18-Feb-2003
	Verification of new configuration operation	18-Feb-2003
	Circuits cabling to MDF	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward the dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming of the dialing plan	18-Feb-2003
	Programming of the trunk group	18-Feb-2003
	Programming of the access restriction (COS)	18-Feb-2003
	Port identification	18-Feb-2003
	Verification of the operation	18-Feb-2003
	MDF cabling circuits	18-Feb-2003
	MDF wiring chart	18-Feb-2003
	Forward the dialing plan to the Project Office	04-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynchronous circuits	01-Mar-2003
	Verify operation	01-Mar-2003
	Connector wiring chart	01-Mar-2003
<b>RADAR</b>	NA	NA
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.12: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: CAYENNE (SOCA)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verification of interfaces programming	04-Mar-2003
	Verification CWP programming	04-Mar-2003
	Dialing plan programming	04-Mar-2003
	Ports identification	04-Mar-2003
	Verification of new configuration operation	04-Mar-2003
	Circuits cabling to MDF	04-Mar-2003
	Wiring chart of MDF	04-Mar-2003
	Forward Dialing plan to the Project Office	04-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Dialing plan programming	04-Mar-2003
	Trunk group programming	04-Mar-2003
	Access restriction programming (COS)	04-Mar-2003
	Port identification	04-Mar-2003
	Operation verification	04-Mar-2003
	Circuits cabling to MDF.	04-Mar-2003
	MDF Wiring chart	04-Mar-2003
	Forward the dialing plan to the Project Office	04-Mar-2003
Other (TBD)	TBD	
<b>AFTN</b>	Prepare asynchronous circuits	04-Feb-2003
	Operation verification	04-Feb-2003
	Connector wiring chart	04-Feb-2003
<b>RADAR</b>	Install the signal diffuser (auxiliary equipment)	04-Feb-2003
	Install the signal selector (auxiliary equipment)	04-Feb-2003
	Verify the Operation of the installed auxiliary equipment	04-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.13: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: MANAUS (SBMN)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Programming of the ATSD/ATSa interfaces	25-Ene-2003
	Programming of the CWP	25-Ene-2003
	Programming of the dialing plan	25-Ene-2003
	Ports identification	25-Ene-2003
	Verification of the operation of the new configuration	25-Ene-2003
	MDF circuits cabling	25-Ene-2003
	MDF wiring chart	25-Ene-2003
	Forward the dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming the dialing plan	25-Ene-2003
	Programming the trunk group	25-Ene-2003
	Programming the access restriction (COS)	25-Ene-2003
	Port identification	25-Ene-2003
	Operation verification	25-Ene-2003
	MDF circuits cabling	25-Ene-2003
	MDF wiring chart	25-Ene-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits for tests	25-Ene-2003
	Verify operation	25-Ene-2003
	Connector wiring chart	25-Ene-2003
<b>RADAR</b>	Prepare circuits	25-Ene-2003
	Verify the operation of the installed auxiliary equipment	25-Ene-2003
	Connector wiring chart	25-Ene-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.14: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: RECIFE (SBRF)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verify interfaces programming	04-Feb-2003
	Verify CWP programming	04-Feb-2003
	Verify dialing plan programming	04-Feb-2003
	Verify ports identification	04-Feb-2003
	Verify the operation of the new configuration	04-Feb-2003
	Verify cabling to MDF circuits	04-Feb-2003
	MDF wiring chart	04-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM.</b>	Programming of the dialing plan	04-Feb-2003
	Programming of the trunk group	04-Feb-2003
	Programming of the access restriction (COS)	04-Feb-2003
	Port identification	04-Feb-2003
	Verification of operation	04-Feb-2003
	MDF cabling circuits	04-Feb-2003
	MDF wiring chart	04-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits for tests	04-Feb-2003
	Verify operation	04-Feb-2003
	Connector wiring chart	04-Feb-2003
<b>RADAR</b>	NA	NA
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**TABLE 1.15: PREPARATORY ACTIVITIES FOR PSAT/ADJUSTMENT OF THE NODE  
NODE: CURITIBA (SBCT)**

<b>EQUIPMENT</b>	<b>ACTIVITIES TO BE CARRIED OUT BY THE CAA</b>	<b>TARGET DATE</b>
<b>VCSS/PBX</b>	Verify interfaces programming	03-Feb-2003
	Verify CWP programming	03-Feb-2003
	Verify dialing plan programming	03-Feb-2003
	Verify ports identification	03-Feb-2003
	Verification of new configuration operation	03-Feb-2003
	Verify MDF circuits cabling	03-Feb-2003
	MDF wiring chart	03-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>PBX ADM</b>	Dialing plan programming	03-Feb-2003
	Trunk group programming	03-Feb-2003
	Access restriction programming (COS)	03-Feb-2003
	Port identification	03-Feb-2003
	Verification of operation	03-Feb-2003
	MDF circuits cabling	03-Feb-2003
	MDF wiring chart	03-Feb-2003
	Forward dialing plan to the Project Office	05-Feb-2003
	Other (TBD)	TBD
<b>AFTN</b>	Prepare asynch circuits for tests	03-Feb-2003
	Verify operation	03-Feb-2003
	Connector wiring chart	03-Feb-2003
<b>RADAR</b>	Install signal diffuser (auxiliary equipment)	03-Feb-2003
	Install signal selector (auxiliary equipment)	03-Feb-2003
	Verify the operation of the installed auxiliary equipment	03-Feb-2003
	Other (TBD)	TBD
<b>UPS</b>	OK	OK
<b>PDB</b>	OK	OK
<b>OTHER</b>	TBD	TBD

**Agenda Item 3: Project financial status**

3.1 Under this agenda item, the Coordination Committee was informed that in the third meeting of the Coordination Committee a detailed breakdown of expenditures carried out by project RLA/98/019 up to 30 September 2002 was presented, including an estimate of expenditures up to 31 December 2002.

3.2 Likewise, it was informed about the present status of cost-sharing contributions that is presented as Appendix A to this item, pointing out that only the deposit from AASANA from Bolivia is missing to complete the total contributions.

3.3 The delegate from Bolivia stated his preoccupation for the situation of the deposit of contributions from AASANA and committed himself to make the necessary efforts in his Administration for the deposit of pending contributions.

3.4 Likewise, it was informed to the meeting about the last revision of the project budget, which is included as **Appendix B** of this agenda item.

3.5 Taking note of the information herein presented, and recognizing the advantages of having a detailed breakdown of expenses that are incurred by the project, the Coordination Committee adopted the following Conclusion:

**CONCLUSION RCC 4/2 DETAILED BREAKDOWN OF EXPENDITURES WHEN PROJECT CONCLUDES**

That ICAO, when RLA/98/019 project is concluded, present a detailed breakdown of expenditures incurred by the project to be included in the Project Final Report.

## RLA/98/019 - IMPLEMENTATION OF SAM REDDIG

## REGISTER OF COST-SHARING CONTRIBUTIONS

STATE	1999		2000		2001		Total		Pending Contribution
	Programmed Contribution	Received Contribution	Programmed Contribution	Received Contribution	Programmed Contribution	Received Contribution	Programmed Contribution	Received Contribution	
Dates	1-Jul-99		1-Mar-00		1 Jan- 01				
ARGENTINA	169,177.00		85,354.00	4 Dec 2000 271,835.00	82,304.00	21 Sept 01 65,000.00	336,835.00	336,835.00	0.00
BOLIVIA (1)	169,177.00	7-Dec 2000 53,947.37	85,354.00	19-Dec-2001 73,214.29	82,304.00	20-Mar-01 72,787.00 72,557.21 23 Set-02 20,000.00	336,835.00	292,505.87	44,300.00
BRAZIL	338,358.00	7 Oct 99 338,358.00	442,547.00	1 Dec 00 170,712.00	229,608.00 44,030.00	501,443.00 44,030.00	1,054,543.00	1,054,543.00	0.00
CHILE	169,177.00	25 Apr 2000 169,177.00	85,354.00		82,304.00	22-May-01 102,658.00 28-Aug-01 65,000.00	336,835.00	336,835.00	0.00
COLOMBIA	169,177.00	02 Mar 2001 169,177.00	85,354.00	02 Mar 2001 85,354.00	82,304.00	22-May/14-Jun 24-Jul 17,034.00 65,000.00 270.00	336,835.00	336,835.00	0.00
ECUADOR	169,177.00	8 Jul 99 169,177.00	85,354.00	21 Jul 00 85,354.00	82,304.00	29 Mar 01/Jul 01 17,304.00 65,000.00	336,835.00	336,835.00	0.00
FRANCE	169,177.00		85,354.00		82,304.00	336,835.00	336,835.00	336,835.00	0.00
GUYANA	169,177.00		85,354.00		82,304.00	03 Jul 01 336,835.00	336,835.00	336,835.00	0.00
PARAGUAY	169,177.00	30 Dec 99 169,177.00 (RLA/98/905)	85,354.00	2 Aug 00 85,354.00	82,304.00	17,279.00 65,000.00	336,835.00	336,810.00	0.00
PERU	169,177.00	29 Dec 00 120,000.00	85,354.00		82,304.00	28-May/27-Jul 31 Aug/18 Set 80,000.00 40,000.00 31,835.00 65,000.00	336,835.00	336,835.00	0.00
SURINAME	169,177.00	Aug/2001 50,000.00 Dec/2001 50,000.00 May/2002 55,000.00	85,354.00		82,304.00	21-June-02 60,000.00 10-July-02 56,835.00 14-Aug-02 65,000.00	336,835.00	336,835.00	0.00
URUGUAY	169,177.00	28 May 99 28,024.00 25 Oct 99 141,153.00	85,354.00	25 Oct 99 4,857.00	82,304.00	21/01/02 15 Ene-02 162,776.00	336,835.00	336,810.00	0.00
VENEZUELA	169,177.00	14 Sep 99 169,177.00	85,354.00	14 Sep 99 55,674.43	82,304.00	DGTA/OEO/2001 27-11-01 111,974.57	336,835.00	336,826.00	9.00
Totals	2,368,482.00	1,577,367.37	1,466,795.00	832,354.72	1,217,256.00	2,286,587.78	5,096,563.00	5,052,174.87	44,400.00

**United Nations Development Programme**

**Project Revision**

Report on Agenda Item 3  
RCC/4 RLA/98/019

Appendix B  
Page 1 of 10  
18-Nov-02

Country: Regional for South America  
Project: RLA/98/019/I/01/15  
Project Title: Implementation of the SAM Digital Network (REDDIG)

Implementing Agency: ICAO

Project Date: 01/05/2000 to 30/11/2002

Expenditures Date: 1999 to 2002

UNDP Source of Funding: CIP

AOS Source of Funding: CIP Sub-entry

UNDP and Shared Costs - Funded			
	Present Rev: I	Last Rev.: H	Variation
A) UNDP principal			0
B) Shared costs	4,850,649	4,791,059	59,590
C) Total A + B	4,850,649	4,791,059	59,590
D) AOS/Admin.Costs	245,914	261,474	-15,560
C/S TOTAL B + D	5,096,563	5,052,533	44,030

Breve Description/  
Purpose:

- |                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A) Reflect expenditures incurred in 2002.<br/>B) Adjust estimated costs for 2003.<br/>C) Adjust AOS in line 45.05 from 2.0% to 1.5%.<br/>C) Contemplate additional deposit from Brazil in US\$44,030.<br/>D) Increment the project total from US\$5,052,533 to US\$5,096,563.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\_\_\_\_\_  
Approved in the name of the Implementing Agency

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approved in the name of UNDP

\_\_\_\_\_  
Date

**PROJECT BUDGET CORRESPONDING TO UNDP CONTRIBUTION**  
(in US Dollars)

Report to Agenda Item 3  
RCC/4 RLA/98/019

Appendix B  
Page 2 of 10  
18-Nov-02

Country: Regional for South America  
Project: RLA/98/019/I/01/15  
Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000                      Termination date: 31 December 2003

	Implem. Agency	TOTAL		*-----1999-----*			*-----2000-----*			*-----2001-----*			*-----2002-----*		*-----2003-----*	
		M/H	US\$	AOS	M/H	US\$	AOS	M/H	US\$	AOS	M/H	US\$	AOS	M/H	US\$	M/H
10	PROJECT PERSONNEL															
11	International professionals															
11.01	Telecommunications/Int'l Coordinator	OACI	12.0	149,922	14,993		8.1	98,885	9,889	3.9	51,037	5,104				
11.02	Telecommunications/Advisor	OACI	22.9	185,975	5,775		4.0	34,100	3,410	3.2	23,648	2,365	7.6	63,282	8.1	64,945
11.97	Consultants	OACI	1.9	22,170	2,068		0.4	4,179	418	1.2	16,499	1,650	0.3	1,492	0.0	0
11.99	Sub-Total		36.8	358,067	22,836		12.5	137,164	13,717	8.3	91,184	9,119	7.9	64,774	8.1	64,945
13	Administrative Support Personnel															
13.01	Executive Bilingual Secretary	OACI	35.1	64,532	2,510		8.0	12,541	1,254	7.0	12,556	1,256	12.0	23,100	8.1	16,335
13.99	Sub-Total		35.1	64,532	2,510		8.0	12,541	1,254	7.0	12,556	1,256	12.0	23,100	8.1	16,335
15	Official travel															
15.01	Official travel	OACI														
15.99	Sub-Total															
16	Missions costs															
16.01	Missions costs	OACI		57,278	3,748	1,906	191	7,221	722		28,351	2,835		13,200		6,600
16.99	Sub-Total			57,278	3,748	1,906	191	7,221	722		28,351	2,835		13,200		6,600
19	COMPONENT TOTAL			479,877	29,094	1,906	191	156,926	15,693		132,091	13,210		101,074		87,880
20	SUBCONTRACTS															
21	Sub-contracts															
21.01	Procurement/nodes installation	ICAO														
21.02	Rental satellite segment	ICAO		261,653	0								261,653			
21.03	Nodes maintenance	ICAO														
21.99	Sub-Total			261,653	0								261,653			
29	COMPONENT TOTAL			261,653	0								261,653			



**PROJECT BUDGET CORRESPONDING TO UNDP CONTRIBUTION**  
(in US Dollars)

Report to Agenda Item 3 RCC/4 RLA/98/019
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Appendix B  
Page 4 of 10  
18-Nov-02

Country: Regional for South America  
 Project: RLA/98/019/I/01/15      Initiation date: 01 May 2000      Termination date: 31 December 2003  
 Title: Implementation of the SAM Digital Network (REDDIG)

Implem. Agency	M/H	TOTAL		1999		2000		2001		2002		2003	
		US\$	AOS	M/H	US\$	AOS	M/H	US\$	AOS	M/H	US\$	M/H	US\$
100		COST SHARING											
101		Governments cost sharing											
101.01	Argentina	322,005	8,363			19,898	1,990	235,900	6,373		52,561		13,646
101.02	Bolivia	321,986	8,382			19,898	1,990	236,517	6,392		51,925		13,646
101.03	Brazil	1,013,985	21,151		627	63	19,898	1,990	659,389	19,098	293,123		40,948
101.04	Chile	321,569	8,799				19,898	1,990	298,583	6,809	-10,558		13,646
101.05	Colombia	321,753	8,615					318,660	8,615		-10,553		13,646
101.06	Ecuador	320,293	10,075		627	63	19,898	1,990	296,717	8,022	-10,595		13,646
101.07	Guyana	321,753	8,615					318,660	8,615		-10,553		13,646
101.08	Perú	319,827	10,541				19,898	1,990	316,310	8,551	-30,027		13,646
101.09	Suriname	327,826	2,542					94,040	2,542		220,140		13,646
101.10	Uruguay	324,458	5,910		627	63	19,898	1,990	142,685	3,857	147,602		13,646
101.11	Venezuela	320,293	10,075		627	63	19,898	1,990	296,709	8,022	-10,587		13,646
101.12	Paraguay	326,770	3,598				19,898	1,990	59,477	1,608	233,749		13,646
101.13	France	330,368	0								316,722		13,646
101.99	Sub-Total	4,892,886	106,666		2,508	252	179,082	17,910	3,273,647	88,504	1,232,949		204,700
109	COMPONENT TOTAL	4,892,886	106,666		2,508	252	179,082	17,910	3,273,647	88,504	1,232,949		204,700
999	UNDP CONTRIBUTION	-88	88		0	0	5	0	0	88	-93		0

**PROJECT BUDGET CORRESPONDING TO COST SHARING CONTRIBUTIONS**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
---------------------------------------------

Appendix B  
Page 5 of 10  
18-Nov-02

Country: Regional for South America  
 Project: RLA/98/019/I/01/15  
 Title: Implementation of the SAM Digital Network (REDDIG)

Initiation Date: 01 May 2000      Termination Date: 31 December 2003

		*----- TOTAL -----*					*----- 1999 -----*					*----- 2000 -----*				
		\$	AOS	Gen. Res.	FO Adm	Total	\$	AOS	Gen. Res.	FO Adm	Total	\$	AOS	Gen. Res.	FO Adm	Total
100	COST SHARING															
101	Governments Cost Sharing															
101.01	Argentina	322,005	8,363		6,467	336,835						19,898	1,990			21,888
101.02	Bolivia	321,986	8,382		6,467	336,835						19,898	1,990			21,888
101.03	Brazil	1,013,985	21,151		19,407	1,054,543	627	63		19	709	19,898	1,990			21,888
101.04	Chile	321,569	8,799		6,467	336,835						19,898	1,990			21,888
101.05	Colombia	321,753	8,615		6,467	336,835										
101.06	Ecuador	320,293	10,075		6,467	336,835	627	63		19	709	19,898	1,990			21,888
101.07	Guyana	321,753	8,615		6,467	336,835										
101.08	Peru	319,827	10,541		6,467	336,835						19,898	1,990			21,888
101.09	Suriname	327,826	2,542		6,467	336,835										
101.10	Uruguay	324,458	5,910		6,467	336,835	627	63		19	709	19,898	1,990			21,888
101.11	Venezuela	320,293	10,075		6,467	336,835	627	63		19	709	19,898	1,990			21,888
101.12	Paraguay	326,770	3,598		6,467	336,835						19,898	1,990			21,888
101.13	France	330,368	0		6,467	336,835										
101.99	Sub-Total	<u>4,892,886</u>	<u>106,666</u>		<u>97,011</u>	<u>5,096,563</u>	<u>2,508</u>	<u>252</u>		<u>76</u>	<u>2,836</u>	<u>179,082</u>	<u>17,910</u>		<u>0</u>	<u>196,992</u>
109	COMPONENT TOTAL	4,892,886	106,666		97,011	5,096,563	2,508	252		76	2,836	179,082	17,910		0	196,992
		*----- 2001 -----*					*----- 2002 -----*					*----- 2003 -----*				
		\$	AOS	Gen. Res.	FO Adm	Total	\$	Gen. Res.	FO Adm	Total	\$	Gen. Res.	FO Adm	Total		
100	COST SHARING															
101	Governments Cost Sharing															
101.01	Argentina	235,900	6,373		7,674	249,947	52,561		-1,458	51,103	13,646		251	13,897		
101.02	Bolivia	236,517	6,392		7,709	250,618	51,925		-1,493	50,432	13,646		251	13,897		
101.03	Brazil	659,389	19,098		13,188	691,675	293,123		5,454	298,577	40,948		746	41,694		
101.04	Chile	298,583	6,809		9,555	314,947	-10,558		-3,339	-13,897	13,646		251	13,897		
101.05	Colombia	318,660	8,615		9,560	336,835	-10,553		-3,344	-13,897	13,646		251	13,897		
101.06	Ecuador	296,717	8,022		9,499	314,238	-10,595		-3,302	-13,897	13,646		251	13,897		
101.07	Guyana	318,660	8,615		9,560	336,835	-10,553		-3,344	-13,897	13,646		251	13,897		
101.08	Peru	316,310	8,551		10,086	334,947	-30,027		-3,870	-33,897	13,646		251	13,897		
101.09	Suriname	94,040	2,542		3,418	100,000	220,140		2,798	222,938	13,646		251	13,897		
101.10	Uruguay	142,685	3,857		4,895	151,437	147,602		1,302	148,904	13,646		251	13,897		
101.11	Venezuela	296,709	8,022		9,498	314,229	-10,587		-3,301	-13,888	13,646		251	13,897		
101.12	Paraguay	59,477	1,608		2,381	63,466	233,749		3,835	237,584	13,646		251	13,897		
101.13	France						316,722		6,216	322,938	13,646		251	13,897		
101.99	Sub-Total	<u>3,273,647</u>	<u>88,504</u>		<u>97,023</u>	<u>3,459,174</u>	<u>1,232,949</u>		<u>-3,846</u>	<u>1,229,103</u>	<u>204,700</u>		<u>3,758</u>	<u>208,458</u>		
109	COMPONENT TOTAL	3,273,647	88,504		97,023	3,459,174	1,232,949		-3,846	1,229,103	204,700		3,758	208,458		

**PROJECT BUDGET - PAYMENTS CALENDAR**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
---------------------------------------------

Appendix B  
Page 6 of 10  
18-Nov-02

Country: Regional for South America  
Project: RLA/98/019/1/01/15  
Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000

Termination date: 31 December 2003

101	<u>GOVERNMENT COST SHARING</u>		Year	Month	Day	Amount	Situation					
							Total to be paid	Paid	Balance			
101-01	GOVERNMENT COST SHARING	Argentina	1999	July	01	<u>169,177.00</u> 169,177.00		169,177.00				
			2000	March	01	<u>85,354.00</u> 85,354.00		85,354.00				
			2001	January	01	<u>17,304.00</u> 17,304.00		17,304.00				
				July	31	<u>65,000.00</u> 65,000.00	<u>336,835.00</u>	<u>65,000.00</u> 336,835.00	0.00			
			101-02	GOVERNMENT COST SHARING	Bolivia	1999	July	01	<u>169,177.00</u> 169,177.00		169,177.00	
101-02	GOVERNMENT COST SHARING	Bolivia	2000	March	01	<u>85,354.00</u> 85,354.00		85,354.00				
			2001	January	01	<u>17,304.00</u> 17,304.00		17,304.00				
				July	31	<u>65,000.00</u> 65,000.00	<u>336,835.00</u>	<u>20,670.00</u> 292,505.00	44,330.00			
			101-03	GOVERNMENT COST SHARING	Brazil	1999	July	01	<u>338,358.00</u> 338,358.00		338,358.00	
			101-03	GOVERNMENT COST SHARING	Brazil	2000	March	01	<u>170,712.00</u> 271,835.00 442,547.00		170,712.00 271,835.00	
2001	January	01				<u>34,608.00</u> 34,608.00		34,608.00				
	July	31				<u>195,000.00</u> 195,000.00		194,980.00				
2002	Dec	31				<u>44,030.00</u> 44,030.00	<u>1,054,543.00</u>	<u>1,010,493.00</u>	44,050.00			

**PROJECT BUDGET - PAYMENTS CALENDAR**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
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Appendix B  
Page 7 of 10  
18-Nov-02

Country: Regional for South America  
Project: RLA/98/019/1/1/15  
Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000

Termination date: 31 December 2003

101	<u>GOVERNMENT COST SHARING</u>		Year	Month	Day	Amount	Situation		
							Total to be paid	Paid	Balance
101-04	GOVERNMENT COST SHARING	Chile	1999	July	01	<u>169,177.00</u> 169,177.00		169,177.00	
			2000	March	01	<u>85,354.00</u> 85,354.00		85,354.00	
			2001	January	01	<u>17,304.00</u> 17,304.00		17,304.00	
				July	31	<u>65,000.00</u> 65,000.00	336,835.00	336,835.00	0.00
101-05	GOVERNMENT COST SHARING	Colombia	1999	July	01	<u>169,177.00</u> 169,177.00		169,177.00	
			2000	March	01	<u>85,354.00</u> 85,354.00		85,354.00	
			2001	January	01	<u>17,304.00</u> 17,304.00		17,304.00	
				July	31	<u>65,000.00</u> 65,000.00	336,835.00	336,835.00	0.00
101-06	GOVERNMENT COST SHARING	Ecuador	1999	July	01	<u>169,177.00</u> 169,177.00		169,177.00	
			2000	March	01	<u>85,354.00</u> 85,354.00		85,354.00	
			2001	January	01	<u>17,304.00</u> 17,304.00		17,304.00	
				July	31	<u>65,000.00</u> 65,000.00	336,835.00	336,835.00	0.00

**PROJECT BUDGET - PAYMENTS CALENDAR**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
---------------------------------------------

Appendix B  
Page 8 of 10  
18-Nov-02

Country: Regional for South America  
 Project: RLA/98/019/1/1/15  
 Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000

Termination date: 31 December 2003

101	<u>GOVERNMENT COST SHARING</u>		Year	Month	Day	Amount	Situation		
							Total to be paid	Paid	Balance
101-07	GOVERNMENT COST SHARING	Guyana	1999	July	01	169,177.00			169,177.00
						<u>169,177.00</u>			
			2000	March	01	85,354.00		85,354.00	
						<u>85,354.00</u>			
2001	January	01	17,304.00		17,304.00				
			<u>17,304.00</u>						
			July	31	65,000.00			65,000.00	
						<u>65,000.00</u>	336,835.00	336,835.00	0.00
101-08	GOVERNMENT COST SHARING	Peru	1999	July	01	120,000.00			120,000.00
						<u>49,177.00</u>			49,177.00
			2000	March	01	85,354.00		85,354.00	
						<u>85,354.00</u>			
2001	January	01	17,304.00		17,304.00				
			<u>17,304.00</u>						
			July	31	65,000.00			65,000.00	
						<u>65,000.00</u>	336,835.00	336,835.00	0.00
101-09	GOVERNMENT COST SHARING	Suriname	1999	July	01	169,177.00			169,177.00
						<u>169,177.00</u>			
			2000	March	01	85,354.00		85,354.00	
						<u>85,354.00</u>			
2001	January	01	17,304.00		17,304.00				
			<u>17,304.00</u>						
			July	31	65,000.00			65,000.00	
						<u>65,000.00</u>	336,835.00	336,835.00	0.00

**PROJECT BUDGET - PAYMENTS CALENDAR**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
---------------------------------------------

Appendix B  
Page 9 of 10  
18-Nov-02

Country: Regional for South America  
Project: RLA/98/019/1/1/15  
Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000

Termination date: 31 December 2003

101	<u>GOVERNMENT COST SHARING</u>		Year	Month	Day	Amount	Situation			
							Total to be paid	Paid	Balance	
101-10	GOVERNMENT COST SHARING	Uruguay	1999	July	01	28,024.00			28,024.00	
						141,153.00			141,153.00	
						169,177.00				
			2000	March	01	4,857.00			4,857.00	
						80,497.00			80,497.00	
						85,354.00				
2001	January	01	17,304.00			17,304.00				
			17,304.00							
			July	31	65,000.00	336,835.00	64,975.00			
					65,000.00		336,810.00	25.00		
101-11	GOVERNMENT COST SHARING	Venezuela	1999	July	01	169,177.00			169,177.00	
						169,177.00				
			2000	March	01	55,674.00			55,674.00	
						29,680.00			29,680.00	
						85,354.00				
2001	January	01	17,304.00			17,304.00				
			17,304.00			17,304.00				
			July	31	65,000.00	336,835.00	64,991.00			
					65,000.00		336,826.00	9.00		
101-12	GOVERNMENT COST SHARING	Paraguay	1999	July	01	169,177.00			169,177.00	
						169,177.00				
			2000	March	01	85,354.00			85,354.00	
						85,354.00			85,354.00	
2001	January	01	17,304.00			17,279.00				
			17,304.00							
			July	31	65,000.00	336,835.00	271,810.00			
					65,000.00		271,810.00	65,025.00		

**PRESUPUESTO DEL PROYECTO - CALENDARIO DE PAGOS**  
(in US Dollars.)

Report to Agenda Item 3 RCC/4 RLA/98/019
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Appendix B  
Page 10 of 10  
18-Nov-02

Country: Regional for South America  
 Project: RLA/98/019/1/1/15  
 Title: Implementation of the SAM Digital Network (REDDIG)

Initiation date: 01 May 2000

Termination date: 31 December 2003

101	<u>GOVERNMENT COST SHARING</u>	Year	Month	Day	Amount	Situation					
						Total to be paid	Paid	Balance			
101-13	GOVERNMENT COST SHARING	1999	July	01	169,177.00	336,835.00	338,835.00	169,177.00			
					<u>169,177.00</u>						
					2000			March	01	85,354.00	85,354.00
										<u>85,354.00</u>	
2001	January	01	17,304.00	17,304.00							
			<u>17,304.00</u>								
			July	31	65,000.00		67,000.00				
					<u>65,000.00</u>		<u>338,835.00</u>	-2,000.00			
					TOTAL:	5,096,563.00	4,945,124.00	151,439.00			
					%	100.00	97.03	2.97			

#### **Agenda Item 4: Programme of project future activities**

4.1 The meeting was informed that the next step as indicated in the report on agenda item 2 was the PSAT. In this regard it was also informed that according the contract SEEE/ICAO the PSAT procedures are already discussed with the contractor and a final agreement on the same was already reached. A detailed explanation on the PSAT development was provided to the meeting and as reference material each delegation to the RCC/4 meeting received a copy of the PSAT procedures.

4.1.1 The meeting was also informed on the requirements for each State concerning the active participation of the Project counterparts as well as other technical personnel during the PSAT developments. In this regard it was requested that the following personnel should participate in the PSAT development.

- a. Technical Counterpart;
- b. Engineer/support technicians;
- c. AFTN Specialist: Programming and maintenance;
- d. VCSS Specialist and ATS speech circuits switcher: programming and maintenance;
- e. Administrative PABX Specialist: programming and maintenance;
- f. RADAR Specialist: programming and maintenance of the radar data processing system and radar circuits;
- g. Support personnel considered appropriate to the Administration.

4.1.2 It was pointed out that the need of assistance from the States Project Counterparts will be of paramount importance to assist the contractor and the ICAO expert in performing the PSAT. In the other hand it was recognized that the technical personnel form the Administrations should take the opportunity to be trained based on the job training programme so as to obtain additional training concerning the hardware software of the nodes.

4.1.3 It was informed by ICAO, that according to the negotiations carried out with PANAMSAT for the satellite segment, the leasing of the same is possible if the contributions for the first year are collected until July 2003. The situation of the administration by ICAO of the satellite segment was discussed during the revision of the RLA/03/901 project document as indicated below.

4.2 The meeting, in discussing the situation of the level of the training carried out for the maintenance/operation for the REDDIG, recognized that additional training is needed in order to guarantee the future operation of REDDIG. In this regard ICAO informed that for this purpose and as part of the objective Nr. 2 of the Technical Cooperation Project RLA/98/019, during the administration of the REDDIG for this Project training courses are programmed to be carried out in Lima. The scope, modality and the final programme for these courses will be submitted to the States in due time. The meeting also recognized that these training courses should be carried out after the starting up of the REDDIG.

4.3 The meeting discussed the procedures to be applied for the operation and maintenance of the REDDIG and noted that in accordance with the activity 1.3.3 of the objective Nr. 1 of the RLA/98/019 Project, the Project Expert should prepare this procedure. In this regard and considering the advantage of the participation of all parties involved in the REDDIG implementation, the meeting agreed that the project expert in elaborating this procedure should submit the same to the project counterparts and interchange views on this procedures through the fora to be activated by means of the Internet.

### **New Regional Technical Cooperation Project RLA/03/901**

4.4 The meeting discussed in detail the project document for the new RLA/03/901 project submitted to the States for comments as attachment of the ICAO letter SA/5065 dated 16th. January 2003. The meeting, after a detailed and long discussion throughout the whole document, performed several amendments to the same and requested to ICAO to circulate to the States for approval. In this regard, ICAO informed to the meeting that in order to proceed with the signature of the contract with PANAMSAT and to proceed with the REDDIG administration by ICAO, the RLA/03/901 project document should be approved by the States before 30 March 2003. The Project Document pointing out modifications done is being attached as **Appendix A** to this report, including a draft budget.

4.5 In relation to the above indicated, the meeting formulated the following Conclusion:

#### **CONCLUSION RCC 4/3 TECHNICAL COOPERATION REGIONAL PROJECT RLA/03/901 – APPROVAL OF THE PROJECT DOCUMENT**

That:

- a) ICAO, considering the comments formulated by the administrations during the RCC/4 Meeting, review the project document for the new technical cooperation regional project RLA/03/901, and circulate the revised version of the same for comments and approval of the States; and
- b) the States provide their comments to ICAO no later than 7 March 2003.

APPENDIX A

to the letter of Agreement among the South American Regional States and  
the International Civil Aviation Organization  
for the provision of technical cooperation financed by trust funds

PROJECT DOCUMENT

Project Number: RLA/03/901

Title: System for the Management of the REDDIG  
and administration of the satellite segment

Duration: ~~4 years extendable~~ 5 years, adjustable according  
agreements reached in the annual re vision  
meetings

Sector and sub-sector: Air Navigation - Communications

Executing Government: Civil Aviation Authorities

Executing agency: ICAO

Start date: July 2003

Project cost: US \$ 2,064,000

**Participant States:** Argentina, Bolivia, Brazil, Chile, Colombia,  
Ecuador, Guyana, Peru, Surinam, Uruguay,  
Venezuela, Paraguay and France.

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**Brief description:** The objective of this project is to establish a multinational mechanism for the Administration of the South American Digital Network (REDDIG), taking into consideration the regional developments in this matter. Also the project, and while this multinational mechanism settles down, will manage the REDDIG temporarily and it implement CNS/ATM applications according with the CAR/SAM FASID.

Approved on behalf of:

State/Agency	Name	Signature	Position	Dates
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ICAO

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## **A. CONTEXT**

### **1 Description of the sub-sector**

1.1 The Convention on International Civil Aviation, signed at Chicago on 7 December 1944 (Chicago Convention), stipulates certain principles and arrangements so international civil aviation may be developed in a safe and orderly manner and that the international services of air transport may be established on the basis of equality of opportunities and operated soundly and economically.

1.2 The Chicago Convention gave origin to the International Civil Aviation Organization (ICAO) which aims and objectives are to develop the principles and techniques of international air navigation and to foster the planning and development of international air transport to ensure the safe and orderly growth of international civil aviation throughout the world.

1.3 The Convention provides the adequate reference frame to identify and define the responsibilities of States with regard to the administration of civil aviation and the organic way and methods to be followed in order to comply with their mandate.

1.4 All States participating in this regional project are parties of the Chicago Convention and members of ICAO.

### **2 SAM States strategy**

2.1 As ICAO contracting States and signatories to the Convention on International Civil Aviation participant State in this project have accepted specific obligations in respect of the implementation of internationally agreed Standards and Recommended Practices governing international civil aviation. The Director of Civil Aviation or similar administrative authority in each State is responsible for ensuring that the civil aviation administration observed and complies with these international obligations.

2.2 Among such obligations, civil aviation administrations are currently responsible for the development and implementation of facilities, services and procedures necessary for the safety, regularity and efficiency of air operations. The orderly and timely implementation of such facilities, services and procedures is agreed by contracting States and coordinated by ICAO by means of air navigation regional plans.

2.3 Air navigation plans determine in detail the facilities, services and procedures necessary for international air navigation within a specified area. These plans contain recommendations that may be followed by governments in their programmes for the provision of air navigation facilities and services, ensuring that both, if provided in accordance with the plan, will form, together with those of other States, a general network that will be adequate for a long period of time.

2.4 Each contracting State is responsible for the provision of facilities and services within its territory, in accordance with Article 28 of the Convention. The ICAO Council has recommended that such facilities and services include those specified in the air navigation plans. With regard to the Caribbean (CAR) and South American (SAM) regions, the planning of such facilities and services is contained in Doc 8733, Air Navigation Plan – Caribbean and South American Regions, Volume II-FASID.

2.5 The air navigation plan for the CAR and SAM regions present in a concise manner ICAO plans for the provision of facilities, services and procedures of international air navigation in the Caribbean and South American Regions. Certain facilities and services are included outside of the prescribed regional limits, in order to maintain the integrity of the systems and of ensuring, insofar as possible, that all the facilities and services facilitated by any State figure in an air navigation plan document. Most of the plan is originated in the recommendations of the concerning air navigation regional conferences summoned by ICAO, mainly and in the case of the CAR/SAM Regions, the recommendations formulated by the Third CAR/SAM Regional Air Navigation Meeting (RAN CAR/SAM/3).

2.6 It corresponds to each State the task of providing facilities and services foreseen in the plan within its territory. Since financial and technical resources substantially vary from one State to another, an unequal execution of certain parts of the plan can be given. Therefore, ICAO makes all the possible effort to ensure the homogeneous execution of the plans and to assist the governments in the implementation of the facilities and services foreseen, including those systems that require of mechanisms of multinational type for its operation and maintenance, taking into consideration, the guidance material included in the CARSAM FASID and the pertinent recommendations on this matter of the RAN CAR/SAM/3 Meeting.

### 3. **Prior or ongoing assistance addressed to the same sub-sector**

3.1 The ICAO Regional Project RLA/90/900 on implementation of the ATS Speech Circuits Networkd in South America, executed between 1991 and 1993, provided assistance to Argentina, Brasil, Chile, Colombia and Peru to start up the trunk network of the air traffic services speech circuits plan assisting in overcoming the problems confronted by participant States for the interconnection of the main automatic switching centres of the network.

3.2 In order that the region can attend the requirements formulated in the CAR/SAM FASID for the AFS, the UNDP/ICAO Regional Project RLA/98/019 on the Implementation of SAM Digital Network (REDDIG), executed between 1998 and 2003, provided assistance to the States of the Region in the acquisition, installation, setting in operation and mange during six months the South American Digital Network (REDDIG) which was, dedicated to modernize the communications of the aeronautical fixed service and to establish a digital platform for the installation of CNS/ATM applications.

### 4. **Regional institutional framework for the sub-sector**

4.1 ICAO maintains a Regional Office in Lima, accredited to the States participating in this project, in charge of promoting and fostering the application of the international standards, recommended practices and international procedures established in the Annexes to the Convention on International Civil Aviation and implementation of the regional plan of air navigation.

4.2 The Regional Air Navigation Planning and Implementation Group for the Caribbean and South America (GREPECAS) is the regional mechanism in charge of ensuring the continuing implementation of the regional air navigation plan and determine the specific problems affecting air navigation suggesting the appropriate solutions. ~~Some~~ States participants in this project are members of the GREPECAS.

4.3 GREPECAS has recommended States and the ICAO's South American Regional Office to carry out, based on specifications provided by that mechanism, the implementation of a Digital

Network in the SAM Region (REDDIG). The recommendation is contained in Conclusion 6/27 of the GREPECAS/6 Meeting. In consideration to this Conclusion ICAO organized and coordinated with interested States the implementation of the South American Digital Network (REDDIG) through the Technical Cooperation Project RLA/98/019.

4.4 The ICAO Technical Cooperation Bureau (TCB) at ICAO's headquarters in Montreal, through the South American Regional Office, maintains contacts with States contracting parties that require or receive technical cooperation in the field of civil aviation and coordinates the administration and execution of the agreed assistance.

## **B. PROJECT JUSTIFICATION**

### **1 Problems to be faced: present situation**

#### **1.1 Problem identification**

1.1.1 At the end of the Technical Cooperation Project RLA/98/019 the participating States will obtain a modern, effective, reliable and efficient network, implemented homogeneously in the SAM region to satisfy in the medium-term the requirements of the aeronautical fix services and to support those of the aeronautical mobile services. The REDDIG, as all modern VSAT digital networks designed to support automated systems using distributed data processing, is based in the sharing by its users of ~~satelittalsatellite~~ segment and network resources in order to establish a management and control system for the network. This management and control system should be operational based on ~~established clear~~ procedures and in accordance to the interests of the user States. Likewise and with the purpose of being able to maintain the efficiency of the exploitation costs, it is necessary to count with an administration that can control ~~the satelittalsatellite~~ resources and the use of the bandwidth in benefit all the parties involved.

1.1.2 On the other hand, the REDDIG, which has been conceived as an installation capable of satisfying the global concepts of ICAO CNA/ATM global concepts, would require of an entity that can harmonize and conduct the implementation of CNS/ATM applications that would permit inter-operability of data processing systems existing in the region.

1.1.3 The above mentioned matters permit to clearly determine that the REDDIG operation characteristics and the communications provision to the users, are such that perfectly fit within the concepts of the need to count for this installation with a management system that would allow, on behalf of participating States and network owners, to manage the same in benefit of the air navigation services to be provided by the States in agreement with the requirements of the Regional Air Navigation Plan, and to progressively conduct the transition to the ICAO CNS/ATM systems within the region, with the corresponding inter-regional interfaces.

1.1.4 In consideration of the above, the ~~Second-Third~~ Meeting of the Coordination Committee of the REDDIG, held in Lima, Peru, from ~~31 July to 2 August~~ 06 to 07 November 2002, while examining the existing background information on the options for the REDDIG management, it was decided that the network management carried out through a multinational mechanism, and that ICAO (Conclusion RCC 3/1) provide support to assist the States in the creation of this mechanism and its establishment in a term of no more that 2 years. Likewise, the mentioned Meeting established the basis for the technical management system of the REDDIG as well as the scheme of cost-sharing distribution, payment of ~~satellite~~ ~~clear~~ segment and implementation of CNS/ATM applications.

1.1.5 In this sense and within the framework of this project, ICAO assistance will be provided to the States as required by the Third Meeting of the Coordination Committee of the REDDIG, having in consideration regional developments of multinational mechanisms.

## 2. **End-of-project situation**

2.1 The REDDIG, constituted by 15 nodes will be operational and transferred to States after finalizing the work of Technical Cooperation Regional Project RLA/98/019.

2.2 It is expected that, when finalizing this project, States will count with a multinational mechanism activated for the network management, and the corresponding ICAO assistance regarding the management of the same while this mechanism is established. Likewise, ATM/CNS applications identified by this project and agreed with the States would have to be implemented.

## 3. **Need for future assistance**

3.1 In accordance with project progress, it is possible that participating States require additional assistance.

## 4. **Target beneficiaries**

4.1 Beneficiaries of the results of this project will be civil aviation administrations, air operators and services users. Also a sensible improvement of air communications systems will be achieved, which will redound in the increase of air operation safety, reduction of fuel cost, decrease of flight delays and increase of the capacity of voice and data communications of the air navigation system.

## 5. **Project strategy and institutional arrangements**

5.1 The strategy of the project is based in the participation of the civil aviation organisms and personnel from the States who have been participating in all the stages of its development with the advisory and technical support through missions of experts and follow up of support actions aiming to achieve the objective.

5.2 The civil aviation administrations of States where management nodes are established will provide the installations, services, supplies and personnel with the appropriate experience to ensure the satisfactory progress of the project activities, while this project administers the network.

## 6. **Reasons for the assistance of ICAO**

6.1 The States, through the different stages of analysis in several meetings about the implementation and administration of the REDDIG, have agreed on the need to formulate an institutional agreement to operate and manage this network. Within these lines, they agreed that a multinational mechanism would be most appropriate mechanism for this matter.

6.2 As it is known in the international air community, ICAO is from more than half century ago the organism of the United Nations system specialized in civil aviation and, as such, it is responsible of providing the referential framework for virtually all the civil aviation regulations of its contracting States. The same experts that provide assistance for the development and maintenance of this referential framework provide technical support to the ICAO Technical Cooperation Programme. On this basis, since 1952, ICAO has been executing technical assistance projects for its contracting States in a neutral, non-profitable manner, and therefore more positive with relation to costs.

## 7. **Special considerations**

7.1 The regional project will maintain links with the technical cooperation national programmes that have under execution participating States for the same sub-sector, with the purpose of coordinating and complementing the activities required at country level with the support of its national projects.

## 8. **Coordination arrangements**

~~8.1~~ ~~8.1~~—Project coordination will be centralized in ICAO Technical Cooperation Bureau in Montreal, which will designate the International Coordinator and will inform participating States of this nomination.

~~8.2~~ The principal function of the International Coordinator is to ensure that project activities are completed successfully and in agreement with ICAO Technical Cooperation Bureau and with policies, regulations and project budget. Likewise, he has the following responsibilities:

- ~~a)~~ Act as secretary of project monitoring annual meetings.
- ~~b)~~ Authorize project expenditures and inform participating States about the expenditures incurred.
- ~~c)~~ Ensure that the work of personnel hired under the project is carried out according to terms of reference, taking into consideration the instructions of the Technical Cooperation Bureau and participating States.
- ~~d)~~ Establish and maintain contacts with donor organizations with the purpose of establishing cooperation agreements

8.2 ICAO Regional Office in Lima will support the International Coordinator nominated by ICAO Technical Cooperation Bureau in the supervision of the project activities in its technical and operational aspect, likewise it will be the official channel for communications with States participating in the project.

8.2 Regarding the technical aspect, the ICAO Regional Office for South America will make the necessary arrangements for the control and follow-up of the activities and results of the project, taking into account, among other aspects, conclusions and recommendations adopted by States in the framework of the GREPECAS in items related to the objectives of the project.

8.3 The management of the REDDIG will be carried out by the network administrator hired by ICAO Technical Cooperation Bureau, in agreement with his terms of reference, being able to maintain informal communications with technical counterparts in each State in fulfilment of his activities.

## 9. **Counterpart support capacity**

9.1 Participating States should assume a full participation commitment in all the project activities and accept the technical and supervisory missions to be programmed to visit the installations and air navigation services involved. They convene, likewise, in applying or executing the results and recommendations of the project in aspects in which they are concerned.

9.2 The civil aviation administrations of participating States will provide the necessary counterpart support for the successful execution of the project and to ensure the maintenance of its results. This support could include the participation of professionals or other personnel at full or partial time, as well as the provision of offices, classrooms, furniture, equipment, expendable material, local transport, telephone, telephone/fax and

other essential services for the effective performance of the activities of personnel assigned for the project during the period of their mission.

**C. DEVELOPMENT OBJECTIVE**

The project will contribute to support the operation and expand the services of a modern regional aeronautical communication system in benefit of the international air transport, as means to support the social, economic and cultural development of the region.

**D. IMMEDIATE OBJECTIVES, OUTPUTS AND ACTIVITIES**

They are described on the following pages.

Abbreviations used in the third column mean:

RO	ICAO South American Regional office in Lima
CAAs	Civil Aviation Administrations or equivalent authorities
TCB	ICAO Technical Cooperation Bureau in Montreal
PRO	Procurement Unit of the Technical Cooperation Bureau in Montreal
NA	Network Administrator
IAC	Institution Aspects Consultant
RCC	REDDIG Coordination and Technical Committee

**Immediate Objective No. 1**

Elaborate a proposal for the establishment of a multinational mechanism for the definitive administration of the network, considering the studies on this subject to be carried out by GREPECAS.

**Success criteria**

A harmonized proposal based on the SAM Region States' interests will be available for the establishment of a multinational mechanism for the administration of the network.

<b>Outputs</b>	<b>Activities</b>	<b>Party responsible for each activity</b>
1.1 Analysis of the possible multinational mechanisms to provide air navigation services in order to determine an arrangement for the administration of the network.	1.1.1 Compile information from the existing multinational mechanisms for the provision of air navigation services, such as: a) COCESNA b) Eurocontrol c) Iceland Agreement d) Others	IAC
	1.1.2 Prepare a comparative chart on the advantages and disadvantages of the possible multinational mechanisms in order to determine an arrangement on this matter for the administration of the network .	IAC
	1.1.3 Analyze the best alternatives for a definitive arrangement that allows the establishment of a multinational mechanism for the administration of the network.	IAC, RO
1.2 Proposal for the establishment of a multinational mechanism for the administration of the network elaborated.	1.2.1 Considering the CAR/SAM FASID guidance material, and the study of the previous output, prepare a multinational mechanism project for the administration of the network.	IAC, RO, NA

**Immediate Objective No. 1****Success criteria**

Elaborate a proposal for the establishment of a multinational mechanism for the definitive administration of the network, considering the studies on this subject to be carried out by GREPECAS.

A harmonized proposal based on the SAM Region States' interests will be available for the establishment of a multinational mechanism for the administration of the network.

<b>Outputs</b>	<b>Activities</b>	<b>Party responsible for each activity</b>
1.3 Proposal on the definitive multinational mechanism for the administration of the network, approved.	1.3.1 Project of proposal on the multinational mechanism presented to the following interested parties requesting their comments: a) SAM States; b) GREPECAS; and c) Meeting of Civil Aviation Authorities in the SAM Region .	RO
	1.3.2 Evaluate the comments received and consider them in the preparation of the final proposal.	IAC, NA, RO
	1.3.3 Circulate the final proposal to the States requesting its approval	RO
	1.3.4 Approval of the proposal on a multinational mechanism for the administration of the network	CAAs
1.4 Arrangements to activate the multinational mechanism for the administration of the network, prepared	1.4.1 Based in the result of 1.3, coordinate with the States the necessary arrangements for the implementation of the approved mechanism.	RO, TCB, CAAs
	1.4.2 Based in activity 1.4.1 prepare a working programme and determine the date of activation of the multinational mechanism.	RO, IAC; NA

**Immediate Objective No. 2****Success criteria**

Administration of the network under the conditions established by the Third Meeting of the Coordination Committee (RCC/3)

Adequate Administration of the network under the direct management of the project.

<b>Outputs</b>	<b>Activities</b>	<b>Party responsible for each activity</b>
2.1 Administration of the network under the direct management of the project.	2.1.1 Management the network during the transition period to the definitive multinational mechanism providing the following services to keep the network operating:	TCB, NA, RO
	a) Assist the States and provide <del>the necessary</del> training for the correct operation of the network nodes	NA
	b) Supervise and control in an efficient manner the network operation, providing the appropriate assistance to the nodes for the identification and solution of operation problems that might arise.	NA
	c) Manage the network configuration keeping the system data base updated with the corresponding information of the nodes bandwidth.	NA
	d) Prepare monthly reports on the activities of the network administration and the operating status of the system and circulate them to the States.	NA, RO
	e) Follow up the aspects of the guarantee contracted for the network.	NA, TCB
	f) Verify periodically the network maintenance programmes improving them <u>as necessary, and advising in the planning and execution of the same-</u>	NA, RO
	g) <del>Establish—Propose</del> the corresponding procedures to duly coordinate the operation of the NCC's (Manaus/Ezeiza).	NA
	h) <u>Based on agreements reached in RCC/3 about the spare parts management policy, propose a procedure</u> <del>Establish a regarding the use of the network</del> spare part, <del>policy for the network</del> —to guarantee its support and continuous supply.	NA, TCB
	<u>i) Approve procedures proposed in g) and h)</u>	

**Immediate Objective No. 2****Success criteria**

Administration of the network under the conditions established by the Third Meeting of the Coordination Committee (RCC/3)

Adequate Administration of the network under the direct management of the project.

<b>Outputs</b>	<b>Activities</b>	<b>Party responsible for each activity</b>
	2.1.2 Coordinate with the States other administrative aspects established for the operation of the network, as follows: <ul style="list-style-type: none"> <li>a) Supplies provided by the States.</li> <li>b) Quantity and quality of the human resources to be provided by the States for the operation and maintenance of the network.</li> <li>c) Facilities, access to site, transportation/mobilization, personnel assistance, telecommunication means, etc.</li> </ul>	NA, RO
2.2 REDDIG Budget approved.	2.2.1 Prepare and present annually to ICAO Lima Office a budget on the network administration for its approval.	NA
	2.2.2 Prepare an annual activity report of the network administration and the programme of activities for the next year including the budgetary provisions.	NA
	2.2.3 Prepare the annual budget of the network	RO
	2.2.4 Convene <del>the meeting of</del> the Network Coordination and Technical Committee in <del>August</del> <u>April</u> of each year	RO
	2.2.5 Approve the annual budget of the network	RCC
	2.2.6 Verify and approve the annual activities <u>report and the activities programme for next year</u> presented by the network administrator	RCC
	2.2.7 Verify and approve the expenses and accounts of the network administration.	RCC

**Immediate Objective No. 2****Success criteria**

Administration of the network under the conditions established by the Third Meeting of the Coordination Committee (RCC/3)

Adequate Administration of the network under the direct management of the project.

<b>Outputs</b>			<b>Activities</b>	<b>Party responsible for each activity</b>
2.3 Space Segment Leased	Satellital	2.3.1	Based on Conclusion RCC 3/7 of the Third Meeting of the Coordination Committee, establish the most convenient arrangement for the leasing of the Panamsat satellital segment.	TCB; RO; NA
		2.3.2	Approve the arrangement proposed by Panamsat	CAAs
		2.3.3	Collect the funds for the lease of the satellital segment space and sign the contract.	TCB; RO

**Immediate Objective N° 3**

**Success Criteria**

In accordance with the CAR/SAM FASID requirements and in coordination with project RLA/98/003, plan the regional development of CNS/ATM applications and implement them.

Elaborate an action plan for the implementation of CNS/ATM applications on the REDDIG network platform in coordination with the States.

Outputs	Activities	Party responsible for each activity
3.1 Identified CNS/ATM applications.	3.1.1 <del>Study–Investigate</del> the available CNS/ATM applications successfully implemented for the aeronautical fixed service <del>by recognized companies.</del>	RO, NA <u>Consultants</u>
	3.1.2 From the technical point of view, <del>study investigate</del> their <u>application in the REDDIG platform and select the corresponding applications. implementation in the network and select them.</u>	RO, NA; CAAs
3.2 Implementation plan of the CNS/ATM applications, approved	3.2.1 Coordinate with the States <u>and with GREPECAS</u> the technical aspects required for the implementation of the selected CNS/ATM applications.	NA, CAAs
	3.2.2 In coordination with RLA/98/003 Project activities, prepare an implementation plan for the CNS/ATM applications including among other things the following:	RO, NA
	<ul style="list-style-type: none"> <li>a) Interoperability with the conventional applications;</li> <li>b) general technical specifications for hardware and software;</li> <li>c) requirements of the system and functionalities;</li> <li>d) costs; and</li> <li>e) coordination arrangements and responsible parties.</li> </ul>	
	3.2.3 Approve plan developed in 3.2.2.	RCC
3.3 CNS/ATM Applications for the fixed service implemented in the REDDIG platform	3.3.1 Based on the approved plan in 3.2.4 execute the following:	

- |                                                                                                                               |      |
|-------------------------------------------------------------------------------------------------------------------------------|------|
| a) propose an amendment to the project budget in order to develop the action plan for the implementation of the applications. | TCB  |
| b) Approve the mentioned amendment.                                                                                           | CAAs |
| c) Develop an action plan for the implementation of CNS/ATM applications in the network platform.                             | TCB  |
| d) Approve the action plan.                                                                                                   | CAAs |

## E. INPUTS

### 1. Inputs of the participating Governments

#### 1.1 Personnel

1.1.1 The States with Network Management nodes (NCCs), Brazil and Argentina will provide:

- a) The necessary national personnel to guarantee the monitoring of the network situation during the 24 hours of the day and that will support the work of the network Administrator.
- b) The administrative support to the project's follow up missions, as necessary.

#### 1.2 Facilities and equipment

1.2.1 The equipment rooms, furniture, REDDIG equipment, local transportation and external communications facilities for the REDDIG management nodes and the Network Administrator will be provided by the States with management nodes. The project's International Coordinator will timely communicate the details of these requirements.

## 2. Inputs

### 2.1 Assignment of ~~National Professional~~ personnel.s

2.1.1 The following international professionals will be provided:

11-01	REDDIG Administrator	24.0 months
11-97	Institutional Aspects	2.0 months
11-98	Other Consultants	4.0 months

2.1.2 Line 11-98 for other consultants include budgetary provision for hiring different consultants to support result 3.1.

2.1.2.1.3 The project tentative work plan is presented in **Attachment 1** and the description of the posts in **Attachment 3**.

### 2.2 Transportation of the Lima Management Node and Replacements

2.2.1 Funds for an amount of USD ~~115,000.00~~30,000.00 are foreseen for the transference of the Lima NCC to Manaus. The NCC was initially located in Lima by RLA/98/019 project.

2.2.2 Likewise, funds for an amount of USD 100,000.00 are foreseen for the acquisition of the necessary replacements for the correct operation of the REDDIG.

2.2.3 The States requesting replacements should deposit in the project's account the costs of these replacements and the expenses to be incurred by the project for its shipment and internation.

### ~~2.3~~ ~~2.2~~ **Administrative support**

~~2.2~~~~2.3~~~~1~~ Argentina with its management node in Ezeiza and Brazil with the management node in Manaus will provide the necessary administrative support personnel to ensure the development of the project activities.

### ~~2.4~~ ~~2.3~~ **Official travels and missions**

~~2.3~~~~2.4~~~~1~~ Funds to cover the costs of official travels of the project's personnel and coordination, follow up and project revision missions are provided as necessary.

### **2.5 Premises, furniture and equipment**

2.5.1 The States with REDDIG management nodes will provide the project premises, furniture and the necessary equipment, according to the list presented in **Attachment 4**.

### **2.6 Miscellaneous**

2.6.1 Budgetary provisions to cover project miscellaneous expenses, preparation of reports and translation of documents are included.

### **2.7 Cost sharing**

2.7.1 The costs of the leasing of the satellital segment will be initially distributed taking into consideration the band width used by each node shown in **Attachment 5** and furtherly based in the real traffi of each node.

2.7.2 The inputs cost balance, estimated in the project budget, will be equally distrubuted among participant States for each node.

2.7.3 Participating States undertake to make the deposit of their cost sharing contributions according to the deposit schedule shown in **Attachment 6**.

## **F. RISKS**

1. Los factores que podrían ser causa de demora o impedir el logro de los resultados y objetivos del proyecto son la falta de pago oportuno de las contribuciones de costos compartidos de los Estados participantes.

2. Un probable factor que con el tiempo podría ser causa de demoras graves o impedir el logro de los resultados y objetivos del proyecto sería un cambio drástico de la situación política o económica en los Estados participantes.

## **G. PREVIOUS OBLIGATIONS AND REQUIREMENTS**

1. The funds corresponding to cost sharing contributions of participating Governments should be deposited immediately after the project approval, in the dates foreseen in the deposit schedule shown as **Attachment 46**, so that the executing agency could perform the activities adequately.

2. Host Governments of project activities will provide project's international personnel with all the reference material and background available regarding the activities to be developed, as well as the authorizations, approvals, licences and logistics support required for the development of their functions.

3. Participating Governments will provide the necessary counterpart support so that the project could obtain an efficient development, reach its objectives and keep its results. To that effect, technical cooperation recipient agencies, matter of this project, will participate with the assignment of the counterpart personnel required and will provide the necessary premises, office equipment, vehicles, materials and services.

4. Participating Governments will ensure the application of the legal dispositions necessary to retain in service the personnel trained by the project for at least two years.

#### **H. SURVEILLANCE, PRESENTATION OF REPORTS AND PROJECT REVISIONS**

1. The project will be monitored at least once every 12 months in the REDDIG Technical Committee and Coordination meetings, and the first of such monitoring meeting will be held within the first 12 months from the beginning of the complete execution and that will preferably be made in the month of April of each year. The project's international coordinator will prepare and submit a project monitoring report to each of the examination meetings using the format for the preparation of the annual monitoring report included in **Attachment 7**. During the project execution other additional reports of this kind may be required, as necessary.

2. A project final report will be prepared for its consideration in the final examination meeting. The draft of such report will be prepared with enough anticipation so that the executing agency may review it and adjust the technical aspects at least four months before the final examination. A description of the project reports and examinations is included in **Attachment 3**.

3. ICAO could perform the following kinds of revisions to the present project document, which will be presented to the REDDIG Coordination Committee for its consideration and to ensure that the undersigned of the project document have no objections to the proposed changes.

- a) Revisions of any of the attachments to the project document or additions to them;
- b) Revisions that do not imply significant changes in the immediate objectives, the results or project activities, but are due to a redistribution of the inputs already agreed or to the increase of the expenses, due to the inflation; and
- c) An obligatory annual revision through which the delivery of the project inputs agreed are spread out or the expenses increased due to the inflation or the flexibility margin of the executing agency regarding the expenses is considered.

#### **J. BUDGET**

The project budget is presented in the following pages.

**BUDGET CORRESPONDING TO TRUSTS FUND CONTRIBUTIONS**  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

	Executing Agency	*----- 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	PROJECT PERSONNEL												
11	International Professionals												
11.01	OACI	24.0	219,300	6.0	52,900	12.0	109,900	6.0	56,500				
11.97		6.0	108,100	2.0	34,300	2.0	35,000	1.0	19,200	1.0	19,600		
11.99	Sub-Total	30.0	327,400	8.0	87,200	14.0	144,900	7.0	75,700	1.0	19,600	0.0	0
15	Official Travel		27,000		5000		5,200		5,400		5,600		5,800
16	Missions Costs		60,500		12,100		12,100		12,100		12,100		12,100
19	<b>COMPONENT TOTAL</b>		414,900		104,300		162,200		93,200		37,300		17,900
20	SIB-CONTRACTS												
21.01	Leasing of Satellite Segment		1,156,500		231,300		231,300		231,300		231,300		231,300
29	<b>COMPONENT TOTAL</b>		1,156,500		231,300		231,300		231,300		231,300		231,300
40	EQUIPMENT												
45.01	Expendable Equipment	OACI	100,000		100,000								
45.02	Non-expendable Equipment	OACI	108,000				39,600		22,800		22,800		22,800
45.03	Operation & Maintenance of Equipment	OACI	10,000		2,000		2,000		2,000		2,000		2,000
45.04	Transfer of the NCC from SPIM to SBMN		30,000		30,000								
45.99	Sub-Total		248,000		132,000		41,600		24,800		24,800		24,800
49	<b>COMPONENT TOTAL</b>		248,000		132,000		41,600		24,800		24,800		24,800
50	MISCELLANEOUS												
53.01	Miscellaneous Expenses	OACI	24,800		14,800		4,600		2,900		1,500		1,000
55.01	Administrative Costs	OACI	114,000		48900		28,500		19,000		9,900		7,700
53.99	Sub-Total		138,800		63,700		33,100		21,900		11,400		8,700
59	<b>COMPONENT TOTAL</b>		138,800		63,700		33,100		21,900		11,400		8,700
99	<b>PROJECT TOTAL</b>		1,958,200		531,300		468,200		371,200		304,800		282,700

**BUDGET CORRESPONDING TO TRUSTS FUND CONTRIBUTIONS**  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

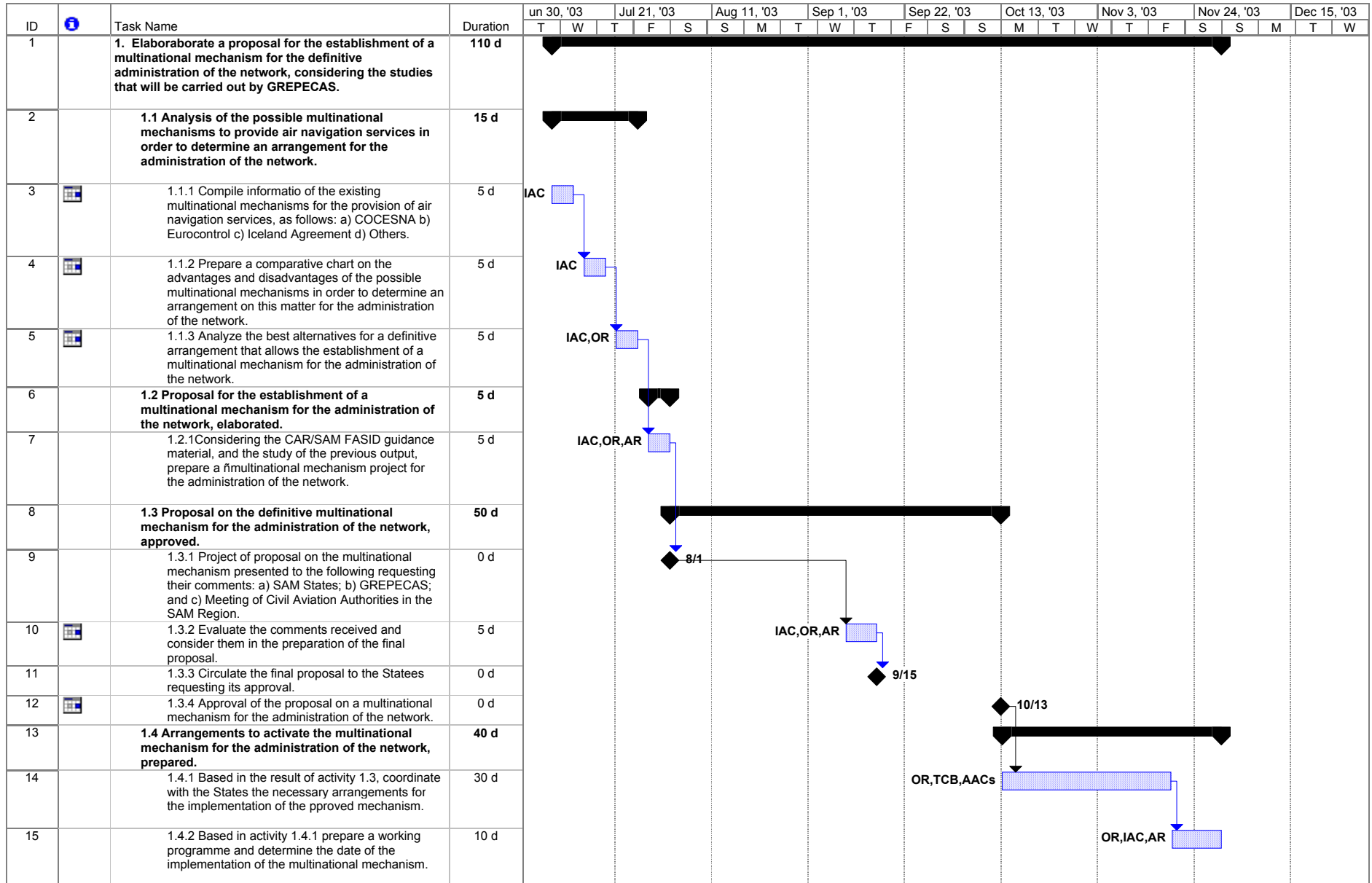
	Executing Agency	*----- M/H	TOTAL US\$	*----- M/H	2003 US\$	*----- M/H	2004 US\$	*----- M/H	2005 US\$	*----- M/H	2006 US\$	*----- M/H	2007 US\$
100	COST-SHARING CONTRIBUTIONS												
101	Government Cost-Sharing Contributions												
101.01	Argentina		174,197		51,477		32,617		33,477		29,050		27,577
101.02	Bolivia		120,197		40,677		21,817		22,677		18,250		16,777
101.03	Brazil		386,090		127,130		70,550		73,130		59,850		55,430
101.04	Chile		122,447		41,127		22,267		23,127		18,700		17,227
101.05	Colombia		171,197		50,877		32,017		32,877		28,450		26,977
101.06	Ecuador		126,947		42,027		23,167		24,027		19,600		18,127
101.07	Guyana		93,947		35,427		16,567		17,427		13,000		11,527
101.08	Peru		170,447		50,727		31,867		32,727		28,300		26,827
101.09	Suriname		93,947		35,427		16,567		17,427		13,000		11,527
101.10	Uruguay		159,947		48,627		29,767		30,627		26,200		24,727
101.11	Venezuela		143,447		45,327		26,467		27,327		22,900		21,427
101.12	Paraguay		99,197		36,477		17,617		18,477		14,050		12,577
101.13	France		96,197		35,877		17,017		17,877		13,450		11,977
101.99	Sub-Total		1,958,200		641,200		358,300		371,200		304,800		282,700
109	COMPONENT TOTAL		1,958,200		641,200		358,300		371,200		304,800		282,700
					-109,900		109,900		0		0		0

## **ATTACHMENTS**

1. Project Tentative Work Plan
2. Project Revisions and Reports
3. Posts descriptions
4. Furniture and equipment
5. Band width used by each node
6. Deposit Schedule
7. Format for the preparation of the annual report



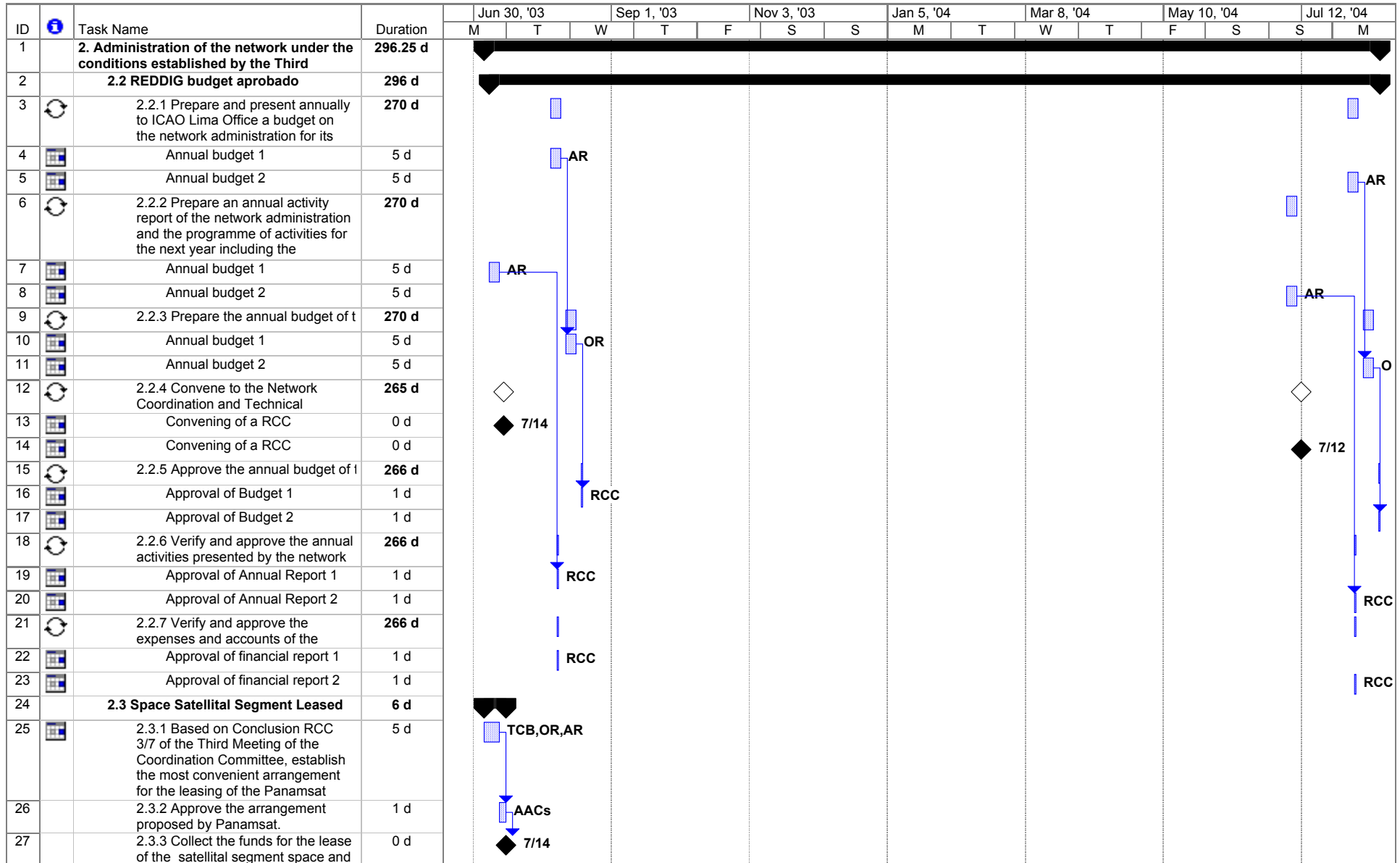
# Gantt Chart RLA/03/901 Project Administration System of the REDDIG Objective 1





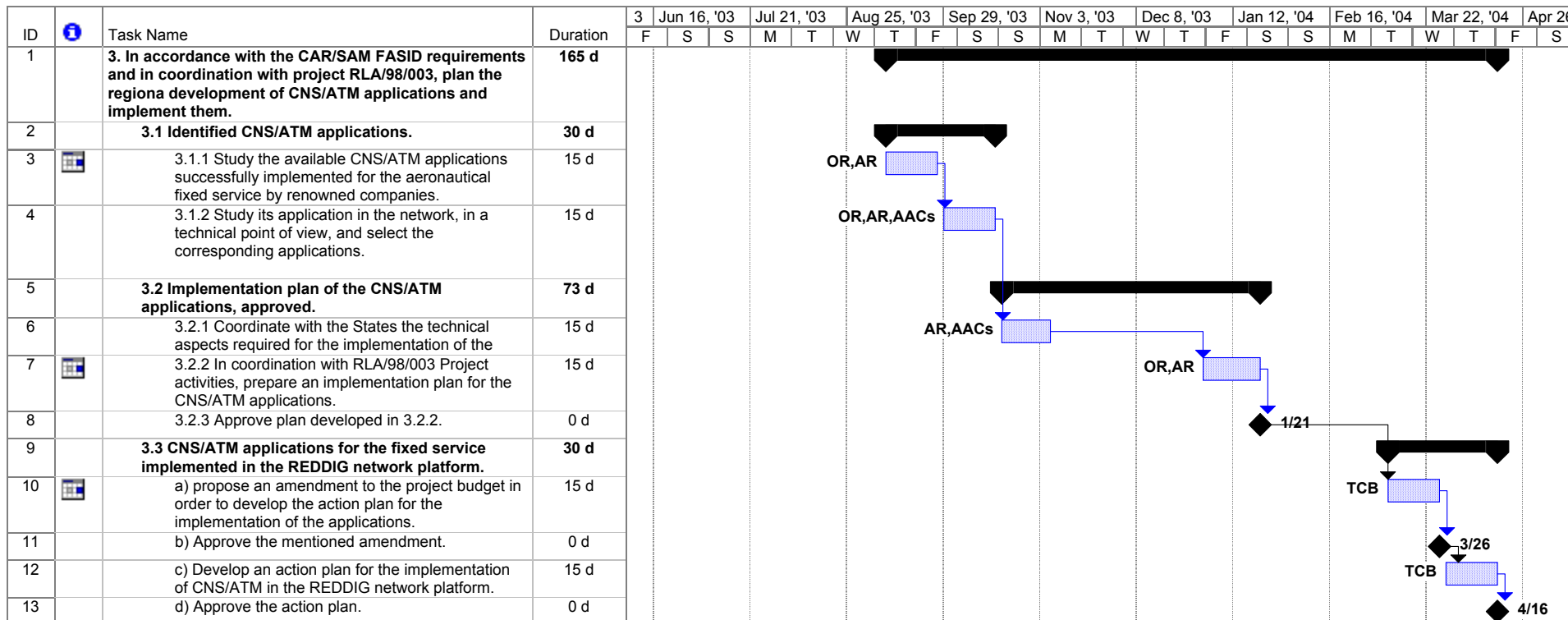


# Gantt Chart RLA/03/901 Project Administration System of the REDDIG Results 2.2 & 2.3





# Gantt Chart RLA/03/901 Project Administration System of the REDDIG Objective # 3



**PROJECT MONITORING REPORTING AND EVALUATION**

1. Annual meetings of the REDDIG Technical and Coordination Committees will be made together with ICAO to monitor the advances of the project and for the approval of next year budget.
2. The revisions will be made against the Document of Project and of the project annual monitoring report to be prepared by the International Coordinator according to the established procedures for this type of reports.
3. When beginning the project activities and every time that it is deem necessary, the International Coordinator will revise and upgrade the project work plan to remit it to the Technical Cooperation Bureau and ICAO Regional Office.
4. The project experts will prepare reports on the missions made to participant States these will be presented to the ICAO Regional Office for their later transmission to the respective authorities.
5. The International Coordinator will prepare a Project Final Report for ICAO's revision four months before the termination of the project. The final version of this report will be considered in the final revision meeting.

**JOB DESCRIPTION**

**Project No.:** RLA/03/901  
**Post No.:** 11-01  
**Title:** Administrator of the network  
**Place:** Manaus, Brazil  
**Start date:** 1 July 2003  
**Duration:** 24 months  
**Language requirements:** Spanish and English  
**Level** P4

**Qualifications:**

1. University degree in Electronic Engineering with specialty in telecommunications.
2. Experience in the planning, preparation of technical specifications for digital VSAT networks, their installation and setting in operation; knowledge of handling of databases, calculation and computer science.
3. Five years of professional experience in the operation and maintenance of digital networks.
4. Experience acquired in a position of superior level in the administration of the pertinent services of electronic engineering and presentation of reports.
5. Knowledge of the industry regulations and international regulations applicable to digital nets.
6. Knowledge of ICAO rules and recommended practices, procedures, manuals and regional planning.
7. It is desirable to be familiar with ICAO administrative procedures, coordination requirements, guidelines and regulations that govern the Program of Technical Cooperation and experience in the handling of technical cooperation projects, including the coordination of their activities.
8. To possess initiative, tact, good judgment and ability to foster and maintain harmonious working relationships.

**Duties:**

Under the technical coordination of the ICAO South American Regional Office:

1. Considering the CAR/SAM FASID guidance material, and the study of output 1.1, prepare a multinational mechanism project for the administration of the network.
2. Evaluate the comments received and consider them in the preparation of the final proposal.
3. Based in activity 1.4.1, prepare a working programme and determine the date of the implementation of the multinational mechanism.

4. Administrate the network during the transition period to the definitive multinational mechanism providing the following services to keep the network operating:
  - a) Assist the States and provide the necessary training for the correct operation of the network nodes.
  - b) Supervise and check the network operation, seeking the optimum efficiency, and providing the appropriate assistance to the nodes for the identification and solution of the operation problems that will arise.
  - c) Administrate the network settings keeping the system database updated with the corresponding information of the bandwidth node.
  - d) Prepare monthly reports on the activities of the network administration and the operating status of the system and circulate them to the States.
  - e) Follow up the aspects of the guarantee contracted for the network.
  - f) Verify periodically the network maintenance programmes improving them.
  - g) Establish the corresponding procedures to duly coordinate the operation of the NCC's (Manaus/Ezeiza).
  - h) Establish a spare part policy for the network to guarantee its support and continuous supply.
5. Coordinate with the States other administrative aspects established for the operation of the network as follows:
  - a) Supplies provided by the States.
  - b) Quantity and quality of the human resources to be provided by the States for the operation and maintenance of the network.
  - c) Facilities, access to site, transportation/mobilization, personnel assistance, telecommunications, etc.
6. Prepare and present annually to ICAO Lima Office a budget of the network administration for its approval.
7. Prepare an annual activity report of the network administration and the programme of activities for the next year, including the budgetary previsions.
8. Based on Conclusion RCC 3/7 of the Third Meeting of the Coordination Committee, establish a more convenient arrangement for the leasing of the Panamsat satelittal segment.
9. Study the available CNS/ATM applications successfully implemented for the aeronautical fixed service by renowned companies.

10. Study in a technical point of view, the CNS/ATM application in the network and select the corresponding applications.

11. In coordination with RLA/98/003 Project activities, prepare an implementation plan for the CNS/ATM applications including the following:

- a) Interoperability with the conventional applications;
- b) General technical specifications for hardware and software;
- c) Requirements of the system and functionalities;
- d) Costs, and
- e) Coordination arrangements and responsible parties.

12. To develop other relevant activities.

-----

**JOB DESCRIPTION**

**Project No:** RLA/03/901  
**Post No:** 11-51  
**Title:** Institutional Aspects  
**Place:** Lima, Peru  
**Start date:** 1 July 2003  
**Duration:** 6 months  
**Language requirements:** Spanish and English

**Qualifications:**

1. Professional or equivalent title in one or more main branches of the civil aviation.
2. Minimum 15 years of experience with an administration of civil aviation at managerial level, responsible for the planning of the development of a national civil aviation or equivalent professional experience.
3. Substantial experience with political multi-disciplines and strategic formulation and planning in the atmosphere of civil aviation.
4. Be familiar with the main economic and technological currents in civil aviation, such as: commercialization of civil aviation organizations and airports; economic liberalization, consolidation of airlines, ICAO CNS/ATM concepts; and harmonization of the regulations of air safety.
5. Experience in the structuring of a civil aviation organization and in the planning and development of human resources, including personnel requirements, evaluations and training in civil aviation.
6. Knowledge of UNDP regulations, of ICAO manuals: Field Operations Manual, interrelation of ICAO's Regional Office with ICAO's field work.
7. Familiarity with developing States needs, and proven organizational ability, managerial to propitiate good labor relationships with the personnel of the Civil Aviation Department.
8. To possess initiative, tact, good trial and ability to foment and to maintain harmonious labor relationships.
9. Knowledge of ICAO's documents and pertinent procedure requirements.

**Duties:**

1. Compile information of the existing multinational mechanisms for the provision of air navigation services, as follows:
  - a) COCESNA
  - b) Iceland Agreement
  - c) Others
2. Prepare a comparative chart on the advantages and disadvantages of the possible multinational mechanisms in order to determine and arrangement on this matter for the administration of the network.
3. Analyze the best alternatives for a definitive arrangement that allows the establishment of a multinational mechanism for the administration of the network.
4. Considering the CAR/SAM FASID guidance material, and the study of the previous output, prepare a multinational mechanism project for the administration of the network.
5. Evaluate the comments received and consider them in the preparation of the final proposal
6. Based in activity 1.4.1, prepare a working programme and determine the date of the implementation of the multinational mechanism.
7. To develop other relevant activities.

-----

## Office, Furniture and Equipment for the Project

### 1. Characteristic of the building and rooms

1.1.1 The building should be of modern construction, with wide and clear atmospheres, and possess good illumination.

1.1.2 The location of the NCC room should allow the direct connection of the equipment from the NCC to the local equipment of the REDDIG node. In the event of remote location of the NCC regarding the local REDDIG node, means should be provided to establish a redundant communication through independent roads.

1.1.3 The building, as it corresponds, must be of appropriate construction for seismic area and to support the hydro-meteorological characteristic conditions of the area.

1.1.4 The electric feeding system of the NCC wings, should have a continuous supply of commercial energy whose voltage and frequency do not vary more than 10% and 5% of the nominal values, respectively, with a back up of generating group and UPS of the true-on line type.

1.1.5 The NCC rooms should have sockets differed for connection of the NCC equipment and computer and for the connection of devices appliances, with boards of electric distribution with thermo-magnetic keys located in one of the rooms. The system of illumination will be the appropriate one for a work atmosphere, and it should have switches inserted to cover the areas.

1.1.6 Security access to the building and NCC rooms should be made available. There should not exist under any circumstance, restrictions to the entrance of authorized people to the building and the NCC room.

1.1.7 The dimension of the NCC room should be inferior to 7x5 m<sup>2</sup>, and it should also have a storage place of 3x2 m<sup>2</sup>, this last preference area should be closed to the first one and have security access.

1.1.8 The NCC rooms should have a conditioned environmental system and pollution control, to maintain under control the temperature parameters, humidity, sterilization of the air and powder particles, within the conditions settled down in the category of bigger demand of ETSI norms.

1.1.9 The NCC room should be equipped with fire and control detection equipment, and have appropriate extinguishers manuals for the type of electric fire and office materials.

1.1.10 It should have two independent bathrooms, for ladies and gentlemen, in perfect state and operational conservation for the exclusive use of the NCC personnel.

1.1.11 Curtains or window shields should be available.

## **1.2 Communications**

1.2.1 The NCC rooms should count with wired points structured for all the connections required for the NCC equipment and two additional points for the connection of auxiliary additional equipment, and 4 points for the office computer system.

1.2.2 The NCC room should count with a PSTN phone line for contingencies and recovery; a dedicated line for coordination and upgrade among NCCs; two phone lines one for the office and another for the coordination of the administration, and access to high-speed INTERNET for office use.

1.2.3 The following communication equipment should be made available: four free hands telephones, a PABX 4x12, a fax, a wide band MODEM and a switch router.

## **1.3 Office furniture**

1.3.1 All the furniture should be fire resistant.

1.3.2 Anti-static floor for the office and NCC control room.

1.3.3 Two modular desks for the office with drawers, specially designed for the use of computer equipment consisting on a CPU, 17 inches screen and with an adherent board for a printer.

1.3.4 Two ergonomic chairs with wheels, shocks and height adjustment.

1.3.5 Table for meetings with four chairs,

1.3.6 Whiteboard, and an eraser;

1.3.7 Two tables for telephone and fax.

1.3.8 Two filing cabinets and two shelves for books.

1.3.9 Modular furniture for, three personnel, three 17 inches screens and 02 printers, and two positions for operators, including two ergonomic chairs with wheels.

## **1.4 Computer equipment and software**

1.4.1 Two latest top technology computers equipped with 100GB disks , disquette 1.44, port series, parallel port, USB, CDR/W, DVD, speakers, ZIP, 1024Mb minimum memory, mouse, Spanish keyboard. Time of life of the equipment 02 years.

1.4.2 A Laser Printer for work intermission cycle, high resolution and printing speed, a color printer with high resolution and printing speed. A high-resolution scanner. Time of life of the equipment 04 years.

1.4.3 Software: operating system Windows XP or superior, Office professional, Visual Studio, Project Manager, Visio, Acrobat, Antivirus. Upgrades of software operating system and of application every two years. Documentation of the software and consultation books.

1.4.4 A photocopier machine.

*Note: In case of being cheaper and more adequate, the computer equipment purchased by project RLA/98/019 could be used during the first year of activities of the project.*

1.4.5 Expendables:

- a) two mouses;
- b) cartridges laser for printing of 3000 sheets, monthly average, and cartridges for color printer color for printing of 300 sheets per month.
- c) Bond A4/letter paper 3500 sheets per month.
- d) 50 units white CDs per month.
- e) 20 Diskettes per month.
- f) 4 ZIP CDs per month.

1.5 **Office Stationary**

- a) Two two-holes punchers,
- b) Puncher for 3 and 4 holes configurable, professional type.
- c) Two desk staplers to hold up to 20 sheets or more.
- d) An adjustable stapler to hold up to 50, 100, 150 and 200 sheets.
- e) A guillotine,
- f) Two scissors,
- g) A magnifying glass with light.
- h) A set of squads and rules,
- i) A scientific calculator,
- j) 40 filing binder of three or four holes.

1.5.1 Other expendable equipment per year:

- a) 50 plastic folders,
- b) 05 binders,
- c) 08 notebooks squared size letter,
- d) 08 blocks for notes,
- e) 02 calendars,
- f) 04 boxes of staples for 20 sheets, 50, and 100, and a box of 150 and 200 paginate.
- g) 04 text liner highlighter;
- h) 04 sets of pencils;
- i) 04 sets of pencils and draft;
- j) 12 sets of markers adhesive plastics,
- k) 15 section separators for binder;
- l) (stick) text liner.
- m) 06 set of correctors for adhesive band.
- n) 06 tapes invisible scotch.
- o) 04 clips boxes,
- p) two pots of white glue.

- q) paper BOND monthly A4/letter 3000 sheets.
- r) others.

**1.6 Miscellaneous**

- 1.6.1 Spanish dictionary, English, and Spanish-English.
- 1.6.2 ICAO Documents, ITU-T, and ITU-R.
- 1.6.3 Large bottle of water, and base with cooler.
- 1.6.4 Coffeepot.
- 1.6.5 Glasses, cups, cutleries, sugar.
- 1.6.6 Expendables:
  - a) large water bottle every weekly;
  - b) Toilet paper and paper towels, biweekly,
  - c) soap.
  - d) Cleaning materials, biweekly.
  - e) Replacement of illumination lamps,

**1.7 Services**

- 1.7.1 Daily cleaning, of the NCC control rooms, office and bathrooms. The cleaning of the office and of the NCC control room, should be made under closed supervision of the NCC personnel.
- 1.7.2 Sporadic maintenance: plumbing, illumination, energy, and others.

- end -

**DISTRIBUTION OF SATELLITE SEGMENT COST**  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

	<b>Bandwidth used per node</b>	<b>Percentage by satellite segment</b>	<b>Segment annual rent US\$ x year 231,300</b>
			<b>Distribution by State</b>
Argentina	128.8	10.441	24,150
Bolivia	71.2	5.772	13,350
Brazil	112.0	9.079	21,000
Brazil	43.2	3.502	8,100
Brazil	85.6	6.939	16,050
Chile	73.6	5.966	13,800
Colombia	125.6	10.182	23,550
Ecuador	78.4	6.355	14,700
Guyana	43.2	3.502	8,100
Peru	124.8	10.117	23,400
Suriname	43.2	3.502	8,100
Uruguay	113.6	9.209	21,300
Venezuela	96.0	7.782	18,000
Paraguay	48.8	3.956	9,150
France	45.6	3.696	8,550
	<b>1233.6</b>	<b>100</b>	<b>231,300</b>

BUDGET CORRESPONDING TO TRUST FUND CONTRIBUTIONS  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

101	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u>	Year	Month	Day	Amount	Situation		
						Payment total	Paid	Balance
101-01	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Argentina	2003	July	01	51,477			
		2004	July	01	32,617			
		2005	July	01	33,477			
		2006	July	01	29,050			
		2007	July	01	27,577	174,197	0	174,197
101-02	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Bolivia	2003	July	01	40,677			
		2004	July	01	21,817			
		2005	July	01	22,677			
		2006	July	01	18,250			
		2007	July	01	16,777	120,197	0	120,197
101-03	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Brazil	2003	July	01	127,130			
		2004	July	01	70,550			
		2005	July	01	73,130			
		2006	July	01	59,850			
		2007	July	01	55,430	386,090	0	386,090
101-04	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Chile	2003	July	01	41,127			
		2004	July	01	22,267			
		2005	July	01	23,127			
		2006	July	01	18,700			
		2007	July	01	17,227	122,447	0	122,447

BUDGET CORRESPONDING TO TRUST FUND CONTRIBUTIONS  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Year	Month	Day	Amount	Situation		
						Payment total	Paid	Balance
101-05	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Colombia	2003	July	01	50,877			
		2004	July	01	32,017			
		2005	July	01	32,877			
		2006	July	01	28,450			
		2007	July	01	26,977	171,197	0	171,197
101-06	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Ecuador	2003	July	01	42,027			
		2004	July	01	23,167			
		2005	July	01	24,027			
		2006	July	01	19,600			
		2007	July	01	18,127	126,947	0	126,947
101-07	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Guyana	2003	July	01	35,427			
		2004	July	01	16,567			
		2005	July	01	17,427			
		2006	July	01	13,000			
		2007	July	01	11,527	93,947	0	93,947
101-08	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Peru	2003	July	01	50,727			
		2004	July	01	31,867			
		2005	July	01	32,727			
		2006	July	01	28,300			
		2007	July	01	26,827	170,447	0	170,447

BUDGET CORRESPONDING TO TRUST FUND CONTRIBUTIONS  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

101	GOVERNMENT COST-SHARING CONTRIBUTIONS	Year	Month	Day	Amount	Situation		
						Payment total	Paid	Balance
101-09	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Suriname	2003	July	01	35,427			
		2004	July	01	16,567			
		2005	July	01	17,427			
		2006	July	01	13,000			
		2007	July	01	11,527	93,947	0	93,947
101-10	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Uruguay	2003	July	01	48,627			
		2004	July	01	29,767			
		2005	July	01	30,627			
		2006	July	01	26,200			
		2007	July	01	24,727	159,947	0	159,947
101-11	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Venezuela	2003	July	01	45,327			
		2004	July	01	26,467			
		2005	July	01	27,327			
		2006	July	01	22,900			
		2007	July	01	21,427	143,447	0	143,447
101-12	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> Paraguay	2003	July	01	36,477			
		2004	July	01	17,617			
		2005	July	01	18,477			
		2006	July	01	14,050			
		2007	July	01	12,577	99,197	0	99,197

**BUDGET CORRESPONDING TO TRUST FUND CONTRIBUTIONS**  
(in U.S. Dollars)

Country: Regional for South America  
Project: RLA/03/901/A  
Title: System for the Management of the REDDIG

Start date: 01 Julio 2003

Termination date: 31 December 2007

	Year	Month	Day	Amount	Situation		
					Payment total	Paid	Balance
101	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u>						
101-13	<u>GOVERNMENT COST-SHARING CONTRIBUTIONS</u> France						
	2003	July	01	35,877			
	2004	July	01	17,017			
	2005	July	01	17,877			
	2006	July	01	13,450			
	2007	July	01	11,977	96,197	0	96,197
	TOTALS					1,958,200	1,958,200
	%						

**PROGRAMME OR PROJECT ANNUAL REPORT**

**Basic Information on the Programme or Project**

Number and title of the project:

Designated institution: ICAO

Project initiation date:

Originally planned:

Effective:

Project termination date:

Originally planned:

Effective:

Total budget (Dollars):

Initial amount:

Last approved revision:

Period covered by the report:

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SUBSTANTIVE FOCUS	ICAO	ARG	BOL	BRA	CHI	COL	ECU	FRA	GUY	PAR	PER	SUR	URU	VEN	AVERAGE
<p>1. Using the following indicators, rate the contribution of the outputs to the achievement of the immediate objectives <u>a/</u>:</p> <p>(Indicator 1)</p> <p>(Indicator 2)</p> <p>(Indicator 3)</p>															
<p>2. Rate the production of target outputs.</p>															
<p>3. Are management arrangements of the programme or project appropriate?</p>															
<p>4. Are programme or project resources (financial, physical and manpower) adequate in terms of:</p> <p>a) quantity?</p> <p>b) quality?</p>															
<p>5. Are programme or project resources being used efficiently to produce planned results?</p>															

a/: The programme or project manager must list the indicators as reflected in the programme support document or project document or agreed on by the stakeholders.

6. Is the programme or project cost-effective compared to similar interventions?																		
7. Based on its work plan, how would you rate the timeliness of the programme or project in terms of:  a. Production of outputs and initial results?  b. Inputs delivery?																		

Please indicate your overall rating of the project using the following numbers:

1. Highly satisfactory
2. Satisfactory
3. Unsatisfactory, with some positive elements
4. Unsatisfactory
5. Not applicable

	<b>Target Group (s)</b>	<b>Programme or project Manager</b>	<b>Government</b>
<b>OVERALL RATING OF THE PROGRAMME OR PROJECT</b>			

Explain the basis of your rating, which need not be limited to, or which may be different from, the relevance and performance criteria rated above. For the last year of the programme or project, the overall rating should include an assessment of the potential success of the programme or project as well as its relevance and performance.



7 Provide any other information that may further support or clarify your assessment of the programme or project. You may include the annexes as you deem necessary.

**PART III: Programme/project summary table**

Programme or project title and number:	)	Management arrangement:	
Designated institution:		Period covered:	
<b>OVERALL ASSESSMENT</b>			
<b>Brief analysis of progress achieved in the contribution of the programme or project to the expected results.</b>			

FINANCIAL SUMMARY			
Sources of funds	Total budget (Thousand Dollars)	Estimated expenditure (Thousand Dollars)	Delivery Rate (%)
Participation in funding of expenditures: Governments of:  Argentina Bolivia Brazil Chile Colombia Ecuador Guyana Peru Suriname Uruguay Venezuela Paraguay France			

SUMMARY OF RESULTS			
Programme support objectives or immediate objectives		Indicators	Achievements
Obj. 1			
Obj. 2			
Obj. 3			

Annual goals	Products achievement	Proposed products goals for next year
<b>Objective 1</b>		
1.1		
1.2		
<b>Objective 2</b>		
2.1		
2.2		

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2.3		
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<b>Objective 3</b>		
3.1		
3.2		
3.3		

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**Agenda Item 5:           Other issues**

5.1     A power point presentation about network interconnections was carried out by the French delegate. After the presentation, the meeting discussed different aspects related with the technical and administrative aspects of the satellite network interconnection, the meeting agreed to continue with informal meetings to deal with digital interconnection networks in order to develop possible solutions to satellite network interconnections.