



REDDIG - RCC/32

INTERNATIONAL CIVIL AVIATION ORGANIZATION

RLA/03/901

**THIRTY-SECOND MEETING OF THE
REDDIG COORDINATION COMMITTEE
(RCC/32)**

FINAL REPORT

(Lima, 25 to 28 March 2025)

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SUMMARY

ii-1 PLACE AND DURATION OF THE MEETING

The Thirty-Second Meeting of the Project Coordination Committee RLA/03/901, *REDDIG Management System and Satellite Segment Administration*, was held in hybrid format with a face-to-face location in Lima, Peru, from 25 to 28 March 2025.

ii-2 OPENING REMARKS

Mr. Fabio Rabbani, Regional Director of the ICAO South American Regional Office, welcomed the participants, highlighted the topics to be discussed, and expressed his best wishes for the success of the deliberations. He then declared the meeting open.

ii-3 WORKING LANGUAGES

The working languages of the meeting were English, French and Spanish. The documentation was submitted in English and Spanish.

ii-4 PARTICIPANTS AND ORGANIZATION

The meeting was attended by 31 participants from 11 REDDIG II Member States (Argentina, Bolivia, Brazil, Chile, France (French Guiana), Guyana, Panama, Paraguay, Peru, Trinidad & Tobago and Venezuela), COCESNA, industry representatives and ICAO specialists. Of these, 5 participants from 2 Member States (France and Venezuela) participated virtually. The list of participants is provided on page iii-1.

Ms. Verónica Chávez, Technical Assistance Officer, acted as the Secretary of the meeting, assisted by Mr. Javier Vittor, REDDIG Administrator.

ii-5 LIST OF CONCLUSIONS

No.	Title	Page
RCC/32-1	ARRANGEMENTS TO START THE TENDER OF REDDIG III PHASE 1 - MPLS	4-2

LIST OF PARTICIPANTS**ARGENTINA**

1. Jorge Marcelo da Silva
2. Federico Iaquinandi
3. Hernán Cannan

BOLIVIA

4. José Alberto Riveros Salazar

BRAZIL

5. Bruno Pacheco Santos Azevedo Costa
6. Bruno Olivera Alves Ferreira

CHILE

7. Christian J. Vergara

FRANCE (French Guiana)

8. Lionel Berton
9. Samuel Freckhaus
10. Frédéric Danloux

GUYANA

11. Sewchan Hemchan

PANAMA

12. Osvaldo Diaz Hernández
13. Rubén Ríos

PARAGUAY

14. Johnny Colman
15. Alexander Aguayo

PERU

16. Romel Isaias Tito Paredes
17. Jorge Luis Díaz Soto
18. Andrés Arango Almidón

TRINIDAD & TOBAGO

19. Ann Edwards
20. Ayana Le Blanc

VENEZUELA

21. Enrico Manganese
22. Willy Rojas

COCESNA

23. Roger Alberto Pérez

CYRION

24. Gianni Hanawa
25. Francelys Figueroa Pino
26. Ruben Allan Gutierrez
27. Enrique Solaris

ENTROPY

28. Mariano Chingotto

FREQUENTIS

29. Matthias Gerlich

ROHDE & SCHWARZ

30. Milton Bolaños
31. Gustavo Adolfo Chiri

ICAO

32. Verónica Chávez
33. Javier Vittor

Agenda Item 1: Approval of the agenda and schedule

1.1 Under this agenda item, the meeting approved the agenda and timetable, included as **Appendices A** and **B** to this part of the Report.

APPENDIX A**AGENDA**

- Agenda Item 1: Approval of the agenda and schedule
- Agenda Item 2: Review of the conclusions adopted by the Coordination Committee
- Agenda Item 3: Report on activities carried out to date since the last meeting of the Coordination Committee
- Agenda Item 4: Work plan for 2025 and implementation of REDDIG III – Phase 1 and Phase 2
- Agenda Item 5: Project financial status and budget approval
- Agenda Item 6: Annual evaluation of the project
- Agenda Item 7: Other matters

EXPLANATORY NOTES

Agenda Item 1: Approval of the agenda and schedule

The provisional agenda and schedule proposed by the Secretariat for its thirty-second meeting shall be submitted for consideration and approval by the Coordination Committee.

Agenda Item 2: Review of the conclusions adopted by the Coordination Committee

Under this agenda item, the Coordination Committee will review the implementation status of the conclusions adopted during the Thirtieth and Thirty-First Meetings (RCC/30 and RCC/31), held in Lima, from 19 to 22 March 2024, and virtually/extraordinarily on 24 October 2024, respectively.

Agenda Item 3: Report on activities carried out to date since the last meeting of the Coordination Committee

Under this agenda item, the activities carried out since the last meeting of the Committee will be analysed with respect to:

- a) Monitoring of the performance of REDDIG II;
- b) Spare parts and logistics management;
- c) Status of nodes and services;
- d) Network security; and
- e) Other activities.

Agenda Item 4: Work Plan for 2025 and implementation of REDDIG III – Phase 1 and Phase 2

The Committee will consider the planned work programme for 2025, which includes:

- a) Conclusion RCC/32-01 - Arrangements for the start of the tender for REDDIG III Phase 1 - MPLS

Agenda Item 5: Project financial status and budget approval

The status of cost-sharing contributions to the project and a summary of obligations incurred during 2024, as well as the project budget for 2025, will be submitted for consideration by the Committee, for approval.

Agenda Item 6: Annual project evaluation

The Committee will take note of the status of the project at the end of the year, including the management and results indicators, as well as the monitoring and control of the project in relation to the approved work plan for 2024 set out in the corresponding forms, concluding with the examination of the survey to the participating States regarding their annual evaluation of the project.

Agenda Item 7: Other matters

Under this agenda item, the Committee may consider any other related matters it deems appropriate.

APPENDIX B**TIMETABLE**

Hour	Tuesday 25 March 2025	Hour	Wednesday 26 March 2025	Hour	Thursday 27 March 2025	Hour	Friday 28 March 2025
08:30 09:00	Participant registration	08:30 10:30	Agenda Items 5 and 6	08:30 09:00	Workshop on new technologies	10:00	Final Report
09:00 09:15	Opening			09:15 10:30	Workshop on new technologies		
09:15 09:30	Coffee Break	10:30 10:45	Coffee Break	09:45 10:00	Coffee Break	10:30 10:45	Coffee Break
09:30 12:45	Agenda Items 1, 2, 3, 4	10:45 12:45	Agenda Item 7	10:00 10:30	Workshop on new technologies	11:45	Closure
				10:45 11:15	Workshop on new technologies		

Agenda Item 2: Review of the conclusions adopted by the Coordination Committee

2.1 The Meeting, under this agenda item, reviewed the following working paper:

- WP/02 – *Review of the conclusions adopted by the Coordination Committee* (presented by the Secretariat).

2.2 After reviewing the conclusions formulated in previous meetings, the participants of the RCC/32 meeting deemed the following conclusions to be valid: 8-8, 29-3, 30-1, 30-2, 30-3, 30-4, and 31-1.

2.3 The following conclusions were considered finalized: 22-4, 29-1, and 29-2.

2.4 **Appendix A** to this part of the Report presents the conclusions that remain valid, including those formulated during the current Meeting.

APPENDIX

CURRENT CONCLUSIONS ADOPTED BY REDDIG COORDINATION MEETINGS AND THEIR IMPLEMENTATION STATUS

No.	Title	Content	Status	Remarks
8-8	REDDIG Administration	While the institutional aspects related to the administration of multinational systems for the provision of air navigation services are further clarified, the States agree that the administration of REDDIG for the next two years, starting 15 October 2005, will continue to be carried out through the ICAO technical cooperation mechanism, as an extension of regional project RLA/03/901.	Valid	Considering that the establishment of the South American Organization for Air Navigation and Operational Safety, a multinational system with the potential to manage REDDIG, remains undefined, the RCC/28 meeting (Lima, Peru, 2-4 May 2022) approved the Y revision document of Project RLA/03/901, extending REDDIG's management until 2030.
29-3	REDDIG III Implementation	<p>The Meeting has approved the implementation of REDDIG III in two phases:</p> <p>Phase 1: WAN Infrastructure</p> <p>Procurement of services from a telecommunications provider (MPLS) with last-mile link redundancy, in accordance with the approved technical specifications, for operational commencement in January 2025.</p> <p>Phase 2: LAN Infrastructure</p> <p>Modernization of connectivity equipment with the necessary interfaces to integrate existing aeronautical services at each node and adaptation of the acquired cybersecurity equipment to the new architecture of the LAN segment of the regional network. This phase is to be planned for operational commencement in January 2027.</p>	Valid	<p>The REDDIG III Ad-hoc Group shall develop the Technical Specifications for REDDIG III (Phase 1) by March 31, 2023.</p> <p>The Ad-hoc Group shall study and propose the activities for Phase 2 of REDDIG III implementation.</p> <p>The REDDIG III Ad-hoc Group, composed of representatives from Argentina, Brazil, Chile, France (French Guiana), Paraguay, and Venezuela, shall be coordinated by the representative from Chile.</p> <p>For further details on the implementation of REDDIG III, refer to WP/04.</p>

No.	Title	Content	Status	Remarks
30-1	Approval of REDDIG III Phase 1 technical specifications	<p>That, to proceed with the acquisition process of the MPLS service for REDDIG III – Phase 1, the participants of the RCC/30 Meeting shall request from the Secretariat:</p> <ul style="list-style-type: none"> a) Verify with each State the coordinates corresponding to the selected MPLS node; b) Coordinate with CDI for the review of the technical specifications and, accordingly, to initiate the administrative arrangements for its acquisition; and c) If the review of the technical specifications by CDI results in significant changes, to ensure that these modifications are circulated for approval by the States. 	Valid	<p>Coordination with Capacity Development and Implementation (CDI) Bureau has begun to review the technical specifications and initiate the procurement process. However, this process remains pending until all extraordinary contributions have been deposited.</p> <p>For a detailed status of these contributions, refer to WP/05.</p>
30-2	Cybersecurity equipment set up and licenses renewal	<p>That, the Secretariat shall:</p> <ul style="list-style-type: none"> a) ensure the installation of the already distributed cybersecurity equipment using a basic configuration while the Cybersecurity Ad-hoc Group develops an advanced configuration; and b) carry out the automatic periodic renewal of cybersecurity equipment licenses for the duration of the equipment's lifecycle. 	Valid	<p>Regarding item (a), the Secretariat, in coordination with the States, has completed the installation and basic configuration of the cybersecurity equipment, except for the devices designated for the Ezeiza and Bogotá nodes due to logistical issues.</p> <p>Regarding item (b), information on the license renewal is provided in WP/03.</p>

No.	Title	Content	Status	Remarks
30-3	REDDIG management structure enhancement definition	<p>That:</p> <p>a) The Secretariat shall present the following information to the Ad-hoc Group:</p> <ol style="list-style-type: none"> 1. A report detailing each management function currently performed by the Regional Office in charge of the Project's management, as well as the functions currently carried out by the Administrative Assistant, Financial Assistant, and Technical Administrator of REDDIG in relation to Project RLA/03/901. The objective is to define the proposed roles of the Project Manager and the new Administrative-Financial Assistant to the Project Manager, 2. A report on the categorization used by ICAO for professional and administrative positions, as well as the timelines required for staff recruitment, and 3. An analysis and report on whether the project's MSA and its annexes would require any modifications in the event of a new organizational structure implementation; <p>b) The Ad-hoc Group, once the above information has been obtained:</p> <ol style="list-style-type: none"> 1. Shall analyze the functions and propose the positions required to fulfill them, considering the new network configuration and the services that REDDIG III will provide once fully implemented, 2. Shall coordinate with the Secretariat to determine the budget required for the new organizational structure proposal, 3. To carry out the aforementioned tasks, the Ad-hoc Group shall meet online once all the required information is available, and 4. Shall present the results at the next RCC meeting or, if deemed necessary, shall request an extraordinary RCC meeting. 	Valid	<p>The Ad-hoc Group is composed of representatives from the following States: Argentina, Bolivia, Brazil, Chile, Colombia, France (French Guiana), Guyana, Paraguay, and Venezuela. The representative from Chile shall coordinate the group's work.</p> <p>The information was presented in a teleconference, and the group's response is awaited.</p>

No.	Title	Content	Status	Remarks
30-4	Preparing and approving the extension to 2030 of the Project RLA/03/901 Rev. 'Y'	<p>That, the Secretariat shall:</p> <p>a) prepare a proposal to extend Project RLA/03/901 until 2030, considering, for budget calculation purposes, the new telecommunications service (MPLS) with last-mile link redundancy and the satellite communications service through 2030; and</p> <p>b) circulate the proposed revision of Project RLA/03/901 to Member States for their acceptance and subsequently initiate the approval process by ICAO Headquarters, for its eventual presentation to REDDIG Member States.</p>	Valid	The Y revision is currently in the signing process.
31-1	Arrangements for the Interconnection of the CANSNET - REDDIG networks.	<p>That, the Secretariat shall:</p> <p>a) verify, by 29 October, the compliance status for those States that requested additional time for analysis regarding the possibility of holding a meeting between the providers of both networks, under the supervision of the States. The purpose of this meeting is to allow providers to propose, for informational purposes only, the technical feasibility of interconnection. This meeting between providers shall not entail any commitment for REDDIG; and</p> <p>b) initiate the necessary coordination to ensure that, in 2025, the required meetings between CANSNET and REDDIG take place to establish responsibilities, service types, cybersecurity requirements, and any other necessary aspects, ensuring transparent information for the development of the MOU.</p>	Valid	<p>a) The providers of both networks met, with the presence of Administrators and designated personnel representing the States, to propose a technical feasibility assessment for interconnection. This meeting was purely informational between the two networks and did not entail any commitment for REDDIG; and</p> <p>b) The necessary coordination efforts are expected to begin in 2025, with a primary focus on drafting the Memorandum of Understanding (MoU).</p> <p>For further details, refer to WP/01 and Final Report of RCC/31 meeting.</p>

Agenda Item 3: Report on activities carried out to date since the last meeting of the Coordination Committee

3.1 The meeting, under this agenda item, considered the following working paper:

- *WP/03 - Report on activities carried out to date since the last meetings of the Coordination Committee* (presented by the Secretariat).

3.2 The meeting analysed the following activities agreed upon in the last Coordination Committee meetings held during 2024, and inherent to the operation, support and maintenance of the network:

- a) Follow-up to REDDIG II performance;
- b) Spare parts and logistics management;
- c) Status of nodes and services;
- d) Network security; and
- e) Other activities.

a) *Follow-up to REDDIG II performance*

3.3 It was highlighted that the global availability of the network reached 99.9936% during 2024.

3.4 The meeting was briefed on the incidents, technical services and logistics associated with the maintenance of equipment (see WP/03, Appendices A, B and C not included in this report). In addition, various defective equipment (Intelligent Block Upconverters (IBUC), modems) and actions taken, including temporary loans and repairs, were reported upon.

Spare parts and logistics management

3.5 The meeting was then reminded that the satellite network equipment had reached its useful life, and that the repairing costs are borne by the requesting State. For this reason, it was recommended that States evaluate replacement or repair options, including the use of compatible alternative equipment.

3.6 On the other hand, it was noted that Venezuela had requested to consider the donation of the remaining spare parts, once the satellite operation ceases.

Status of nodes and services

3.7 The meeting noted that follow-up had been given to the availability of multi-protocol label switching (MPLS) nodes, to the penalties applied to the providers, and to the new implementations (such as last mile fibre in Montevideo). Also, the resolution of failures and collaborations between States to enable new air traffic services (ATS) and surveillance data, were reported.

3.8 In relation to the speech circuit between Colombia and Jamaica, the IP voice solution implemented between them through Cisco routers with FXS interfaces was highlighted upon.

Network security

3.9 In relation to this issue, Fortinet equipment (firewalls, switches, etc.) was delivered to all nodes, except for Argentina and Colombia, which are in progress.

3.10 Basic configurations were applied to all nodes, and the upgrade of licenses and replacement of Netgear switches with FortiSwitch were planned. In addition, annual password changes and configuration updates were continued.

3.11 Regarding the renewal of the firewall licence, the meeting was informed that this year's payments were expected to complete the amount required to renew the firewall licence, as the 2024 quota did not provide for this cost.

Other activities

3.12 Thereafter, it was informed that configuration backups of all nodes had been completed, that telephone directories were kept up to date, that support was provided to the Administrations on coordination solutions, and the importance of keeping functional administrative and operational networks as separate environments, was stressed upon.

Agenda Item 4: Work plan for the year 2025 and implementation of REDDIG III – Phase 1 and Phase 2

4.1 Under this agenda item, the following working paper was presented:

- WP/04 – *Activities planned for the period 2025* (presented by the Secretariat).

Progressive implementation of REDDIG III

4.2 The meeting noted that, given the possibility that the total amount required for the start of the bidding process for REDDIG III Phase 1 (WAN infrastructure) may be available in May, it is expected that the entire process will be carried out during this year.

4.3 In this regard, the new ground network with dual MPLS access is expected to be operational in the first half of 2026; therefore, it was necessary to define the situation of the satellite network: whether the Intelsat contract is to be maintained, or whether a date for the end of the operation of the network is to be defined.

4.4 To address the situation of the satellite network, it was agreed to request the Secretariat to explore the feasibility of extending Intelsat's services for six months. With this information, a virtual meeting will be convened between April and May to evaluate the available options, which include the possible extension or reduction of the bandwidth. The objective of this meeting will be to make a final decision on the future of the satellite network.

4.5 On the other hand, in preparation for the start of the Phase 1 tender, it was requested to review the requirements to take into account, in order that the new MPLS network foresees that, for States with complexity in the last-mile access, the implementation of MPLS access by VSAT (very small aperture terminal) is considered. In this regard, the relevant Ad-Hoc group should carry out an assessment and consult with States to define exactly the nodes where this type of access should be considered.

4.6 In the same way, it was agreed to establish a technical evaluation group of the tender, to be held at ICAO Headquarters, for which the Secretariat will circulate a letter asking the States regarding their interest in participating in this stage. It should be noted that the costs associated with this participation will be borne by the respective State. As for the planning of the tender, it is expected that, if the process starts at the beginning of June, the technical evaluation would possibly be taking place between October and November.

4.7 In addition, it was agreed to evaluate the possibility of implementing MPLS nodes in New Zealand and Senegal. Regarding the New Zealand node, since several States have an interest in it, the Secretariat was instructed to consult States to identify who would be interested in this cost-sharing solution.

4.8 In light of the above, the meeting adopted the following conclusion:

CONCLUSION RCC/32-01		ARRANGEMENTS FOR THE START OF THE TENDER OF REDDIG III PHASE 1 - MPLS
<p>What: The Secretariat:</p> <p>a) Make an inquiry to the provider of the REDDIG II satellite segment regarding the possibility of a 6-month service extension. After that, convene a virtual meeting with the focal points to define the future of the REDDIG II satellite network;</p> <p>b) Convene the relevant Ad-hoc Group to make a final review of the technical specifications, to confirm MPLS nodes, and to include safeguards for implementing MPLS access by VSAT in the identified States;</p> <p>c) Consult States on their interest in participating in the tender technical evaluation group. The costs of participation will be borne by the respective State; and</p> <p>d) Initiate the necessary consultations for the possible implementation of the nodes in New Zealand and Senegal in the States concerned.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Ambiental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>	
Why: To initiate the arrangements related to the tender of Phase 1 of REDDIG III		
When: May 2025		Status: In process
Who: <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> Secretariat ICAO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: Users/Industry		

4.9 The meeting then took note of the need to initiate arrangements to generate the technical specifications for Phase 2 (local area network (LAN) infrastructure and cybersecurity), based on the requirements of the Ad-hoc Group formed for this purpose. To this end, there were presentations from different suppliers on different market solutions that can be applied to this stage of the project.

4.10 Next, the technical and operational review of services was discussed. Among them, was that this year the migration of speech services between States to VoIP would be emphasized upon. The exploration of the SWIM (System-wide information management) concept will also continue, including contacts with *Aeropuertos Españoles y Navegación Aérea* (AENA) and Single European Sky ATM Research (SESAR) to carry out test workshops. Finally, it is expected to work with dashboards, analytics, monitoring, automation and intelligent management of network traffic.

4.11 It was also recommended that States should:

- a) Update their focal points, verify electrical installations, manage spare parts and review contingency plans; and
- b) Communicate any disruptions that compromise international services, which was stressed upon.

4.12 In relation to the Twelfth Technical/Operational Meeting of REDDIG (RTO/12), information was provided that Brazil would evaluate the possibility of hosting the event, scheduled to take place from 13 to 17 October 2025, at a venue to be defined.

4.13 Regarding the 2025 training and maintenance, it was reported that the preventive maintenance programme will be continued in all nodes. In addition, visits will be made to the nodes of La Paz, Paramaribo and Panama for maintenance and on-site training.

4.14 On the other hand, in view of the RTO's concern to hold a Voice over internet protocol (VoIP) course and to the budgetary constraints, the Secretariat informed that the RLA/06/901 project was coordinating the acquisition of an online VoIP course for this year, and that both requirements could be combined. In this regard, the meeting agreed that, in addition to the number of places designated for RLA/06/901, additional vacancies for RLA/03/901 would be allocated with project funds, in those nodes not covered by the RLA/06/901 course. To implement this, the Secretariat will consult the RLA/03/901 focal points the number of required vacancies, with a maximum of one per node.

4.15 Regarding the trainings requested on Fortinet and on monitoring tools, such as wireshark, it has been decided that, during this year, budgets will be requested for the holding of these courses, in order to allocate sufficient appropriations to cover the costs and implement them during 2026.

4.16 Finally, interconnection with other networks was discussed. In this sense, the interconnection between REDDIG and other regional networks (CANSNET, CRV, NewPENS) will continue to be promoted, as part of the work led by the ICAO SAM Regional Office.

Agenda Item 5: Project financial status and budget approval

5.1 Under this agenda item, the meeting received information on project finances and the revision of the project budget in WP/05 – *Project Financial Status and Approval of the Budget for the Year 2025*, presented by the Secretariat.

Financial situation

5.2 The meeting noted that as of 31 December 2024, the project shows a total contribution of **USD 23,443,102** (including interest and other contributions). Expenditures in 2024 amounted to **USD 1,130,182**, and a total of **USD 21,579,436** from 2003 to 2024, to be confirmed with the financial statements submitted by ICAO HQ Capacity Development and Implementation (CDI) Bureau. This gives a balance of USD 1,853,666. This positive balance is committed to the MPLS ground network service contract, the satellite segment service, the Argentina fund (USD 273,397) and other administrative expenses, therefore, the actual balance of the project is minimal.

5.3 With regard to contributions, the meeting was informed that Guyana's contribution for 2024 had been received in January, as well as Venezuela's payment of the extraordinary quota. In this regard, the contributions updated to February 2025 can be found in **Appendix A** to this part of the Report.

5.4 On the other hand, it was reported that Ecuador had indicated to the Secretariat, in a past meeting, that it would be depositing in May both its contribution and extraordinary contribution to the project. On the other hand, Venezuela indicated its intention to pay the arrears of contributions and was doing everything possible to overcome the financial constraints it was presenting. In this regard, the meeting agreed that it was important to be up to date with the deposits of contributions so as not to affect the implementation of the project; especially at this time of transition to REDDIG III where various payments will have to be made to maintain the existing services, such as the acquisition of the new services for REDDIG III.

5.5 In this context, it was noted that, regarding the extraordinary contribution for the acquisition of the MPLS service for REDDIG III, agreed upon during RCC/29, only Ecuador's contribution remained outstanding, with the State indicating its intention to complete it by May. It was recalled that, under ICAO's procurement procedures, the full amount for the contracted service must be deposited with ICAO before initiating any process. Therefore, to ensure the service is implemented at the beginning of 2026 and considering the timeline of the bidding process, the total amount must be deposited by May.

Budget revision Y

5.6 The Meeting was then informed that RLA/03/901 project, revision Y, which extends the project until 2030, is currently at ICAO Headquarters under process of approval and signature by the ICAO Secretary General. After being approved, it will be sent to the States for their signature.

5.7 On this last point in particular, the Secretariat informed the meeting that an instruction had been received from ICAO HQ CDI indicating:

"The adjustment in administrative fees responds to a comprehensive review process within ICAO with the aim of harmonizing and standardizing the cost structure in regional projects. This update seeks to ensure:

- *An equitable distribution of operational and administrative costs among all participating States;*
- *The financial sustainability of the project, considering the operational needs and the commitments previously acquired; and*
- *Alignment with the principles of efficiency and optimization of resources promoted by the United Nations system.*

It is important to note that ICAO's management rates had not been revised in several years for the reference project, and although initially work was done in conjunction with States to keep them unchanged, current conditions require their updating to continue providing an effective and sustainable service.

In this regard, the following administrative fees are being applied to all States:

1. ICAO General Administrative Fee:

- *10% on non-procurement activities (e.g. recruitment of experts, missions, fellowships, TSS and miscellaneous).*

Among others, it includes the following services:

- a) Preparation of technical specifications;*
- b) Tender documentation;*
- c) Technical evaluations and negotiations;*
- d) Drafting of purchase orders and contracts; and*
- e) Equipment inspections and commissioning, among others.*

2. Fees for procurement services:

- *13% for purchase orders/contracts up to USD 10,000; and*
- *7% for purchase orders/contracts over USD 10,000.*

This information is presented for retransmission to the States, with application for this project from 2026. We are reviewing the budget of their project so that they can count on concrete amounts in this regard."

5.8 In this sense, in the next revision of the project, these new values would have to be incorporated into the ICAO administrative fee.

APPENDIX A

**Status of cost-sharing contributions to the Project RLA/03/901
(as of February 2025)**

	2003-2021		1-Jul-22		1-Jul-23		1 Ju 2024		Total (until 2024)		
	Contribution	Paid	Contribution	Paid	Contribution	Paid	Contribution	Paid	Contribution	Paid	Pending
Argentina	1,980,081	1,980,081	79,495	157,584	78,089	0	131,523	131,523	2,269,188	2,269,188	0
Bolivia	1,076,188	1,036,377	73,284	73,284	71,869	71,869	122,765	122,772	1,344,106	1,304,302	39,805
Brazil	3,809,457	3,809,547	210,203	210,203	204,543	204,543	412,982	412,982	4,637,185	4,637,275	-90
Chile	1,027,234	1,047,234	45,274	25,274	43,858	76,543	95,872	63,187	1,212,238	1,212,238	0
Colombia	1,410,996	1,410,996	88,021	88,021	69,628	71,940	113,696	113,696	1,682,341	1,684,653	-2,312
Ecuador	1,054,028	1,054,028	51,849	51,849	50,434		101,237	50,434	1,257,548	1,156,311	101,237
Francia	988,542	988,532	45,066	45,056	43,651		94,477	138,128	1,171,736	1,171,716	20
Guyana	973,110	958,139	50,288	50,348	48,872	48,862	99,520	99,570	1,171,790	1,156,919	14,871
Panama			38,191	76,382	38,191		81,714	81,714	158,096	158,096	0
Paraguay	1,105,677	1,105,677	46,338	46,338	44,922	44,922	96,426	96,414	1,293,363	1,293,351	12
Peru	1,386,834	1,386,834	69,618	69,618	68,203	68,193	118,563	118,563	1,643,218	1,643,208	10
Suriname	981,394	773,472	50,407	136,776	48,992	135,316	99,622	134,806	1,180,415	1,180,370	45
Uruguay	1,122,764	1,122,697	51,415	51,447	50,000	49,127	100,430	101,303	1,324,609	1,324,574	35
Venezuela	1,408,159	1,348,126	69,455	60,033	68,040	133,395	118,670	56,762	1,664,324	1,598,316	66,008
Trinidad and Tabago	887,123	887,124	46,494	46,494	45,079	45,079	94,823	94,823	1,073,519	1,073,520	-1
COCESNA	291,761	294,629	23,900	23,885	23,900	23,885	23,900	23,885	363,461	366,284	-2,823
Sub Total	19,503,348	19,203,490	1,039,298	1,212,592	998,271	973,674	1,906,220	1,840,562	23,447,137	23,293,268	153,868
Interest	157,539	157,539	12,880	12,880	35,093	35,093	28,849	28,849	234,361	234,361	
Other contributions	658	658	1,837	1,837	3,460	3,460	-932	-932	5,023	5,023	
Sub Total	158,197	158,197	14,717	14,717	38,553	38,553	27,917	27,917	239,384	239,384	
TOTAL	19,661,544	19,361,687	1,054,015	1,227,309	1,036,824	1,012,227	1,934,137	1,868,479	23,686,520	23,532,652	153,868

Agenda Item 6: Annual evaluation of the project

6.1 Under this agenda item, the meeting took note of the information presented at WP/06 on the project evaluation documents; namely:

- a) Project status as of 31 December 2024, and management and results indicators (WP/06, Appendix A);
- b) Project monitoring and control, work plan for the year 2025 (WP/06, Appendix B);
and
- c) Management and Performance Indicators Survey (WP/06, Appendix C).

6.2 The 2024 survey on management and performance indicators was completed by 11 States (Argentina, Bolivia, Brazil, Chile, France (French Guiana), Guyana, Panama, Paraguay, Peru, Trinidad and Tobago, and Venezuela). The comments and ratings provided resulted in an average score of **4.7** out of a maximum of 5 on the rating scale, indicating that the program of activities carried out in 2024 "exceeds the requirements." The consolidated information is presented in **Appendix A** to this agenda item.

APPENDIX A

SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS

Section I: Evaluation of current project

Section II: Assessment of compliance with objectives

Section III: Evaluation of implementation and delivery of services by ICAO

Section IV: Lessons learned

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

Total	4.75
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SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS
I. EVALUATION OF CURRENT PROJECT

1.- Project objectives		Evaluation
Do you think the project's objectives are set correctly according to the development priorities of your State in relation to the National Air Navigation Plan to serve the reality of civil aviation?		
ARG		5
BOL		5
BRA	Yes, the objectives of the project are in line with Brazil's development priorities	5
CHI		5
COL		
ECU		
FRA	yes	4
GUY		5
PAN		5
PAR	The objectives of the Project are aligned according to the priorities of Our State in relation to the National Air Navigation Plan	4.5
PER		
SUR		
T&T	Yes	5
URU		
VEN	The objectives of the project are in accordance with the PNNA and are in development to the reality of civil aviation.	5
AVERAGE		4.9

2.- Support at regional and global level		Evaluation
Do you think that the project responds and supports your administration with the commitments of the Regional and Global Air Navigation Plans?		
ARG		5
BOL		5
BRA	Yes. The project provides the States of the SAM Region with a robust aeronautical communications infrastructure, which	5
CHI		5
COL		
ECU		
FRA	Yes without REDDIG, our control center encounter major difficulties	5
GUY		5
PAN		5
PAR	The Project strongly supports our State's commitments to the Regional and Global Air Navigation Plan	5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Support and commitments to the NNP are obtained	5
AVERAGE		4.9

3.- Comments of the State(s)		Evaluation
Do you have any comments on the direction of the project?		
ARG		5
BOL		5
BRA	The project management has ensured that all the State of the SAM Region	5
CHI		5
COL		
ECU		
FRA	The direction of the project is very good	5
GUY		5
PAN		5
PAR	The Project Management is fully committed to the objectives of the Project and encourages participation.	4.5
PER		
SUR		
T&T	What is the estimated completion date of the Reddig 3 project	
URU		
VEN	No comment	5
AVERAGE		4.9

4.- Strategy and vision		Evaluation
Do you consider that the project meets your institution's strategy and vision that has at long term?		
ARG		5
BOL		5
BRA	yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
PAN		5
GUY		5
PAN		5
PAR	It fully responds to the requirements of our State	4.5
PER		
SUR		
T&T	Yes, Space based ADSB via Reddig is being considered for the Piarco FIR	5
URU		
VEN	The plans of the REDDIG project go hand in hand with the strategies and vision of the institution	4.5
AVERAGE		4.8

5.- Project quality		Evaluation
What opinion deserves you the content of this project to achieve the expected objectives?		
ARG		
BOL		
BRA		
CHI		
COL		
ECU		
FRA	With REDDIG 3 the objectives will be expected	
GUY		
PAN		
PAR	The content of the Project is fully in accordance with the objectives.	
PER		
SUR		
T&T	Project quality has been maintained during the lifecycle of the Reddig Project	
URU		
VEN	Excelent	

6- Project resources		Evaluation
Do you consider that the financial, physical and human resources agreed to achieve the objectives established in the project document are appropriate?		
ARG		5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	until now yes	5
GUY		5
PAN		5
PAR	Yes, we agree	4.5
PER		
SUR		
T&T		
URU		
VEN	The financial, physical and human resources so far are well projected	4.5
AVERAGE		4.8

7.- Project participants		Evaluation
Do you consider that all parties that should be involved in the project are present? If it is not so, who should be involved?		
ARG		5
BOL		5
BRA		5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	Yes, we consider that all those involved are in accordance with the necessary requirements	4.5
PER		
SUR		
T&T	The Piarco CNS Supervisors/Engineers/Manager	4
URU		
VEN	More participation of Caribbean islands in the REDDIG project	4.5
AVERAGE		4.7

8.- Project effectiveness		Evaluation
Is the project effective in costs compared to similar programs or projects?		
ARG		5
BOL		4.5
BRA		5
CHI		4.5
COL		
ECU		
FRA	yes	5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	5
URU		
VEN	Yes	5
AVERAGE		4.9

9.- Modification of project objectives	
What modifications to the objectives and scope of the project would you propose?	
ARG	
BOL	
BRA	No modifications required
CHI	Conection with New Zeland
COL	
ECU	
FRA	Until now none
GUY	
PAN	
PAR	None
PER	
SUR	
T&T	To maintain VSAT connectivity
URU	
VEN	Motivate and insist on the participation of the Caribbean islands in the REDDIG project
10.- Other information	
Please provide any other information that may support or clarify your perception of the current project scope.	
ARG	
BOL	
BRA	No
CHI	
COL	
ECU	
FRA	none
GUY	
PAN	
PAR	There are no comments or clarifications from us.
PER	
SUR	
T&T	
URU	
VEN	

SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS
II. ASSESSMENT OF OBJECTIVES COMPLIANCE

1.- Project objectives		Evaluation
In terms of project management by ICAO, do you think that project objectives are being met?		
ARG		4.5
BOL		4.5
BRA		5
CHI		5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	Yes, they are being met within the proposed objectives	4.5
PER		
SUR		
T&T	Yes	5
URU		
VEN	Yes, excellent work	5
AVERAGE		4.8

2.- Project schedule		Evaluation
Do you think that project objectives are being met or have been met promptly in accordance with your expectations?		
ARG		5
BOL		5
BRA		5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		4.5
PAN		5
PAR	Yes, they are being complied with as far as possible.	4.5
PER		
SUR		
T&T	There have been some delays	3
URU		
VEN	The objectives are met in the stipulated time	5
AVERAGE		4.6

3.- Use of resources		Evaluation
Do you consider that in meeting the objectives are being used, or have been used, resources efficiently?		
ARG		5
BOL		4.5
BRA	yes	5
CHI		4.5
COL		
ECU		
FRA	yes	5
GUY		5
PAN		5
PAR	yes	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	In order to meet the objectives, we consider that resources are being invested efficiently	5
AVERAGE		4.8

4.- Project cost		Evaluation
Do you consider that the costs relating to compliance with the objectives are or have been appropriate?		
ARG		4.5
BOL		4.5
BRA	yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	Yes, according to the investment and satisfaction of the services	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	yes	5
AVERAGE		4.7

5.- Major achievements		Evaluation
What are the main achievements of the project in relation to the expected results?		
ARG		
BOL		
BRA	P1 connections and switching to a terrestrial-only and IP network	
CHI		
COL		
ECU		
FRA	Coordination with adjoining centres	
GUY		
PAN		
PAR	Availability, qualified technical group formed and user satisfaction	
PER		
SUR		
T&T	Minimal downtime and Interoperability and Harmonization of AFS and AMHS services	
URU		
VEN	The performance and operability of the system	

6.- Major problems and their resolution		Evaluation
What are the main problems affecting the achievement of the expected results and how should they be resolved?		
ARG		
BOL		
BRA	No problems	
CHI		
COL		
ECU		
FRA	In case of failures, it can take a long time to receive the equipment	
GUY		
PAN		
PAR	Delays that occur in customs handling by the different states for the provision/return of spare parts. This delay could be reduced by optimizing the management of the focal points.	
PER		
SUR		
T&T	Terrestrial outages especially for the islands of Trinidad and Tobago, VSAT communication should be maintained and continued in Reddig 3	
URU		
VEN	No comment	

7.- Other comments	
Please include other comments related to the compliance of project objectives.	
ARG	
BOL	
BRA	No comment
CHI	
COL	
ECU	
FRA	Perhaps a significant increase cost
GUY	
PAN	
PAR	No comment
PER	
SUR	
T&T	
URU	
VEN	No comment

8.- Risks	
What new events that could happen, would probably affect the achievement of project outputs? What do you recommend to respond to these events?	
ARG	
BOL	
BRA	If there is a delay in contracting the new MPLS network and the satellite network stops working
CHI	
COL	
ECU	
FRA	
GUY	
PAN	
PAR	Delays that occur in customs handling by the different states for the provision/return of spare parts. This delay could be reduced by <u>optimizing the management of the focal points.</u>
PER	
SUR	
T&T	Limited international independent fiber links to trinidad and Tobago which will can affect service delivery 5
URU	
VEN	

9.- Other information	
Please provide any other information that may support or clarify your assessment regarding compliance with the objectives of the project.	
ARG	
BOL	
BRA	No comment
CHI	
COL	
ECU	
FRA	Nil
GUY	
PAN	
PAR	None
PER	
SUR	
T&T	
URU	
VEN	

SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS
III. EVALUATION OF PROJECT IMPLEMENTATION AND PROVISION OF SERVICES BY ICAO

1.- Decision making		Evaluation
Do you think that the decision-making process within the project is appropriate?		
ARG		5
BOL		4.5
BRA	yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	Yes, excellent job	5
AVERAGE		4.8

2.- Products quality		Evaluation
Do you think that the quality of products elaborated is appropriate?		
ARG		5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	Excelent	5
AVERAGE		4.8

3.- Orientation		Evaluation
Do you think that there is compliance with guidance towards achieving the project outputs?		
ARG		5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	The objectives well defined and correctly oriented to the REDDIG project	5
AVERAGE		4.8

4.- Organization and prioritization		Evaluation
Do you think the organization and prioritization within the project is appropriate?		
ARG		5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	3
URU		
VEN	Excelent	4
AVERAGE		4.6

5.- Change management		Evaluation
Do you think that the management of change and degree of flexibility in managing the project are appropriate?		
ARG		5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Excellent management and innovation to changes	5
AVERAGE		4.8

6.- Service to the State		Evaluation
Do you think that the service provided to your State is appropriate?		
ARG		5
BOL		4.5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Acceptable	3.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	Very good	5
AVERAGE		4.7

7.- Communication		Evaluation
Do you think that the level of communication within and outside the project is adequate?		
ARG		4.5
BOL		4.5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Communication is very technical and constant	5
AVERAGE		4.7

8.- Conflicts		Evaluation
Do you believe that conflict management is adequate?		
ARG		5
BOL		4.5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	Yes	4
AVERAGE		4.7

9.- Use of resources		Evaluation
Do you think that project resources are being used efficiently to produce the expected results?		
ARG		4.5
BOL		5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	4.5
GUY		5
PAN		5
PAR	Yes, improvements are observed at the forefront with the progress of the project	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Excelent	5
AVERAGE		4.7

10.- Relevance of mechanisms		Evaluation
Do you think that management mechanisms of the project are relevant?		
ARG		5
BOL		4.5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	4.5
GUY		5
PAN		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Yes	5
AVERAGE		4.7

11.- Opportunity to work plans		Evaluation
On the basis of its work plan, how would you rate the degree of opportunity of the project as regards the achievement of products, outputs and delivery of inputs?		
ARG		4.5
BOL		5
BRA	Good	5
CHI		4.5
COL		
ECU		
FRA	correct	4.5
GUY		5
PAN		5
PAR	Very good	4.5
PER		
SUR		
T&T	Yes	4
URU		
VEN	Appropriate work plan	4
AVERAGE		4.6

12.- Orientation		Evaluation
Do you consider that the activities and products developed through the project are in line with ICAO directives, regional offices and air navigation plans?		
ARG		5
BOL		4.5
BRA	Yes	5
CHI		4.5
COL		
ECU		
FRA	Yes	5
GUY		5
		5
PAR	Yes	4.5
PER		
SUR		
T&T	Yes	4.5
URU		
VEN	Yes, they are in agreement: ICAO - PNNA	5
AVERAGE		4.8

13.- Other information	
Please provide any other information that may support or clarify your assessment on products and services provided through the project.	
ARG	
BOL	
BRA	None

CHI	
COL	
ECU	
FRA	With the transition to REDDIG 3, improvement will be important
GUY	
PAR	No comments
PER	
SUR	
T&T	
URU	
VEN	No comments

**SURVEY ON MANAGEMENT AND OUTPUTS INDICATORS
IV. LESSONS LEARNED**

1.- Positive lessons learned from the project.	
Provide a brief description of the positive lessons learned from project implementation.	
ARG	
BOL	
BRA	The Office does not leave any State behind
CHI	Teamwork and active participation of project staff
COL	
ECU	
FRA	Communication is excellent, both face-to-face in Lima and by videoconference.
GUY	
PAN	
PAR	Good communication through the use of teleconferences for the management of situations and coordination for problem solving. The human capital made up of each of the states that make up the project.
PER	
SUR	
T&T	Increased aviation safety due to improved communication between states. Reduced cost for Space based ADSB implementation. Reduced expenditure for various countries due to MPLS design
URU	
VEN	The system of management, monitoring and follow-up of failures is excellent and responds as quickly as possible in the event of any novelty or eventuality.
2.- Opportunities for improvement.	
Provide a brief description of the improvement opportunities identified during project implementation.	
ARG	
BOL	
BRA	None
CHI	Staff turnover that does not continue in the project
COL	
ECU	
FRA	Training for staff should be continued to maintain and improve their competence
GUY	
PAN	
PAR	Constant training to have a technical team effectively prepared to face problems. The implementation of training tools. Constant innovation in the implementation of training in face-to-face and virtual formats. Propose laboratories with link simulation and connectivity tools
PER	
SUR	
T&T	Network security devices have been installed and currently the configurations are being developed and tested by the reddig adhoc firewall working group. Network Training is needed for Technicians.
URU	
VEN	
3.- Strategy to implement the improvement opportunities identified.	
Provide a brief description of the strategy that you would propose to implement the improvement opportunities identified.	
ARG	
BOL	
BRA	None
CHI	
COL	
ECU	
FRA	With Francisco's departure, I hope his successor will be just as brilliant and cordial as he was, especially with the arrival of REDDIG 3.
GUY	
PAN	
PAR	Maintain the current strategy, as it has been refined through the experience gained during the course of the project, and implement the same working system for the REDDIG III project.
PER	
SUR	
T&T	Network Training - Basic, Intermediate and Advanced, for Technicians, Supervisor and Engineers respectiely
URU	
VEN	

Agenda Item 7: Other matters***Regional contingency plan***

7.1 A presentation was coordinated by Mr. Fernando Hermoza, ICAO SAM ATM/SAR Officer, in response to a State's inquiry regarding contingency plan testing. He emphasized the importance of regional contingency plans and the expected involvement of the communications, navigation and surveillance (CNS) systems. These plans were highlighted as essential for maintaining air operations during critical situations such as technical failures, natural disasters, or volcanic events.

7.2 Brazil was cited as an example of best practices, implementing CNS service degradation assessments and activating proportional responses, while anticipating the impact on ATS. The need for backup power, redundant links, and preventive maintenance was also emphasized upon.

7.3 Another example related to CNS system contingencies was the regional cooperation observed during a messaging system failure in Bolivia. Other States provided support through air traffic services message handling services (AMHS) terminals, ensuring operational continuity. This type of collaboration reflects a regional approach based on operational harmonisation among flight information regions (FIRs,) where alternative routes and procedures are agreed upon without requiring formal approval between parties.

7.4 Finally, it was reiterated that these plans must be validated through periodic simulations, ideally once a year. An effective CNS contingency plan relies on continuous technical evaluation, robust infrastructure, and a strong commitment to cooperation among States.