



Agenda Item 2: Review of the report of the Twenty-Second Meeting of the Coordination Committee (RCC/22) and the report of the Twenty-Third Extraordinary Meeting of the Coordination Committee (RCC/23)

REVIEW OF THE REPORTS OF THE LAST MEETINGS OF THE REDDIG COORDINATION COMMITTEE

(Presented by the Secretariat)

SUMMARY	
Under this agenda item, the Meeting will review the report of its twenty-second (RCC/22) and twenty-third (extraordinary) (RCC/23) meetings, analysing the status of the conclusions formulated therein, as well as the status of conclusions still in force from previous coordination meetings.	
REFERENCES	
<ul style="list-style-type: none">• Report of the Twenty-Second Meeting of the REDDIG Coordination Committee (RCC/22) (Lima, Peru, 5-7 March 2019); and• Report of the Twenty-Third Meeting of the REDDIG Coordination Committee (RCC/23) (Teleconference, 21 August 2019).	
ICAO strategic objectives:	<i>A – Safety</i> <i>B – Air navigation capacity and efficiency</i>

1. Background

1.1 The Twenty-Second Meeting of the REDDIG Coordination Committee (RCC/22) was held in Lima, Peru, on 5-7 March 2019, attended by 9 member States (Bolivia, Brazil, Chile, Guyana, Paraguay, Peru, Trinidad and Tobago, Uruguay and Venezuela), with a total of 16 participants, including ICAO officers.

1.2 The Twenty-Third (Extraordinary) Meeting of the REDDIG Coordination Committee (RCC/23) was held via teleconference, on 21 August 2019. The meeting was attended by 12 REDDIG member States (Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, France, Guyana, Paraguay, Peru, Uruguay and Venezuela), 2 non-member States (Panama and United States, 1 international organisation (COCESNA), the REDDIG MPLS provider (CenturyLink), and ICAO officers, totalling 39 participants.

1.3 The list of valid conclusions adopted by the RCC and their current status of implementation is contained in the **Appendix** to this working paper.

2. Matters addressed by the RCC/22 meeting

2.1 The RCC/22 meeting addressed the following topics: Review of the report of the twenty-first meeting of the Coordination Committee, Report of activities carried out since the last Coordination Committee meeting, Work plan for 2019, Financial situation of the project and approval of the budget for 2019, Annual project evaluation, and other matters.

Review of the report of the twenty-first meeting of the Coordination Committee

2.2 Under this agenda item, the meeting reviewed and approved the report of the twenty-first meeting of the Coordination Committee (RCC/21), held in Lima, Peru, on 14-16 May 2018, attended by 11 member States (Argentina, Brazil, Chile, Colombia, France, Guyana, Paraguay, Peru, Trinidad and Tobago, Uruguay and Venezuela) and one company (Aireon), totalling 27 participants, including ICAO officers.

2.3 The RCC/21 meeting reviewed the valid conclusions and, in this regard, considered that conclusions 8/8, 19/3 and 20/1 were still valid, and conclusions 20/2, 20/3, 20/4 and 20/5 had been completed. The RCC/21 meeting formulated two conclusions (conclusions 21/1 and 21/2).

Report of the activities carried out since the last Coordination Committee meeting

2.4 The meeting analysed the activities carried out in 2018, as approved by the RCC/21 meeting:

- a) 2018 training programme;
- b) REDDIG II operation and analysis of the implementation of new services; and
- c) Implementation and operation of the MEVA III / REDDIG II interconnection.

2.5 Under this agenda item, the following conclusions were formulated: **RCC/22-1** - *Technical visits by the REDDIG Administrator to the network nodes*; **RCC/22-2** - *Training in technological tools for analysing voice and data applications carried over the REDDIG*; **RCC/22-3** - *Study for replacing REDDIG II connectivity equipment and updating the IOS of network routers*; and **RCC/22-4** - *Acquisition of firewall equipment for REDDIG II*.

2019 Work plan

2.6 The meeting analysed the following main activities scheduled for 2019:

- a) REDDIG II training programme; and
- b) REDDIG II operation and analysis on the implementation of new services.

Financial situation of the project and approval of the budget for 2019

2.7 The Coordination Committee received information about expenses incurred by Project RLA/03/901 and the status of cost-sharing contributions during 2018, and then approved the budget for 2019.

2.8 Under this agenda item, the following conclusions were formulated: **RCC/22-5** - *Delays in cost-sharing contributions to Project RLA/03/901 – Argentina and Suriname*; **RCC/22-6** - *Approval of the budget for Project RLA/03/901 Rev T*; **RCC/22-7** – *Draft budget for Project RLA/03/901 Rev U for approval by States*; **RCC/22-8** - *Approval of 100-kHz bandwidth increments in MEVA III*.

Annual assessment of the project

2.9 The REDDIG member States assessed the 2018 annual project report and considered that, in general, the objective and the scope of the project had been appropriate, and that they had been properly met.

Other matters

2.10 Under this agenda item, the meeting discussed the adoption of SELCAL 32 and circulation of the *Study on the convenience and feasibility of regional implementation of satellite ADS-B*.

3. Matters addressed by the RCC/23 (extraordinary) meeting

3.1 The Twenty-third (extraordinary) meeting of the Coordination Committee of Project RLA/03/901 - *REDDIG Management and Satellite Segment Administration System*, was held via teleconference (GoToMeeting), on 21 August 2019.

3.2 The meeting was attended by representatives of 12 States that participated in the Coordination Committee of Project RLA/03/901 (Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, France, Guyana, Paraguay, Peru, Uruguay and Venezuela), 2 States that were not participating in the REDDIG project (United States and Panama), 1 organisation (COCESNA), the REDDIG MPLS provider (CenturyLink) and ICAO officers, totalling 39 persons.

3.3 The RCC/23 meeting addressed the following topics: Proposal for additional nodes in the REDDIG II MPLS network; Administrative arrangements; Technical aspects; and other matters.

Proposal for additional nodes in the REDDIG II MPLS network

3.4 The Committee examined the request made by the United States Federal Aviation Administration (FAA) to implement additional nodes in the REDDIG II MPLS network, hiring network access directly from the telecommunications provider CenturyLink, at no additional cost for the participants of Project RLA/03/901, with a view to establishing more direct, better quality communications with SAM States (Brazil, Peru and Venezuela), providing redundancy to the existing connection through the MEVA III - REDDIG II interconnection.

3.5 Under this agenda item, the meeting formulated conclusion RCC/23-1 - *Implementation of additional nodes of the REDDIG II ground network (MPLS)*.

Administrative arrangements

3.6 Under this agenda item, the meeting noted that, for the implementation of additional node(s), the State or organisation had to submit a formal request through a letter addressed to the ICAO South American Regional Office, stating agreement with the established arrangements.

3.7 Any coordination for the implementation of additional nodes will be carried out by the ICAO South American Regional Office, with the support of the REDDIG II Administrator.

Technical aspects

3.8 Under this agenda item, the Meeting agreed to adopt the following technical aspects for the implementation of additional node(s) in the REDDIG ground network:

- The acquisition, installation and maintenance of the equipment used in the additional node of the REDDIG II ground network will be the sole responsibility of the State/organisation interested in accessing the network;
- The States/organisations interested in the implementation of additional nodes shall acquire equipment of the models specified by the ICAO South American Regional Office and by the REDDIG II Administrator (or better);
- The States/organisations interested in implementing additional nodes are responsible for the adoption of network security measures (Cybersecurity) to protect the nodes, and such measures must be demonstrated to the ICAO South American Regional Office prior to accessing the network; and
- The REDDIG II Administrator must have access to CPE (Customer Premise Equipment) in order to view the parameters of the equipment (see Figure 1). Depending on the services to be loaded (voice or data), the States/organisations shall acquire the necessary interfaces, to be configured as directed by the REDDIG II Administrator.

Other matters

3.9 The meeting took note of the letter sent by CenturyLink to the ICAO South American Regional Office stating that it would increase the bandwidth from 256 kbps to 1 Mbps in all the nodes of the REDDIG II ground network (MPLS), maintaining the same cost of the hired service.

4. Suggested action

4.1 The Coordination Committee is invited to:

- a) take note of the information provided in this working paper;
- b) approve the report of the twenty-second meeting and twenty-third (extraordinary) meeting of the REDDIG Coordination Committee; and
- c) review the status of implementation of the conclusions presented in the **Appendix** to this working paper.

APPENDIX

CONCLUSIONS ADOPTED BY THE REDDIG COORDINATION MEETINGS THAT REMAIN VALID AND THEIR STATUS OF IMPLEMENTATION

No.	Title	Content	Status	Remarks
8-8	REDDIG Administration	That, until such time that the institutional aspects related to the management of multinational systems for the provision of air navigation services are more clearly defined, the States agree that, for the next two years, starting 15 October 2005, the REDDIG will continue to be managed through the ICAO technical cooperation mechanism, as an extension of Regional Project RLA/03/901.	Valid	Taking into account that the establishment of the South American Air Navigation and Safety Organization, a multinational system with capacity to manage the REDDIG, continues undefined, the RCC/20 meeting (Lima, Peru, 21-23 March 2017) approved Project RLA/03/901 S revision document, extending the management of REDDIG until 2023.
19-1	Suriname cost-sharing contributions payment schedule	That, Suriname, with the aim of complying with full payment of its 2012 to 2016 cost-sharing contributions, present a payment schedule in this regard, in order to avoid the application of the payment delay procedure defined by the ICAO SAM Regional Office in letters SA5033 and SA5192 of 21 January and 7 March 2016, respectively.	Valid	Suriname presented a payment schedule and made the following payments: July 2016: USD 80,000 March 2017: USD 80,000 No payment was made in 2018. Therefore, its debt amounts to USD 185,174.00, aside from the 2019 fee.
22-1	Technical visits by the REDDIG Administrator to the network nodes	That the Secretariat: a) Make the necessary arrangements for the REDDIG Administrator to visit at least two network nodes per year.	Valid	Planning for 2020: TBD
22-2	Training in technological tools for analysing voice and data applications carried over REDDIG	That the Secretariat: a) At the request of REDDIG member States, organise training courses on the use of tools for analysing information (voice and data) carried over REDDIG.	Completed	A first training course was offered during the RTO/8 meeting (Santiago, Chile), and will be repeated at the RTO/9 meeting.

No.	Title	Content	Status	Remarks
22-3	Study for replacing REDDIG II connectivity equipment and updating the IOS of network routers	That the REDDIG II Administrator: a) Coordinate the conduction of a study to replace connectivity equipment, mainly the NETGEAR, and to update the IOS of network routers.	Valid	All IOS of the network routers were updated in 2019. Trials on the use of CISCO switches to replace Netgear switches are scheduled for 2020 in the Curitiba and Asuncion nodes.
22-4	Acquisition of firewall equipment for REDDIG II	That the Secretariat: a) At the request of REDDIG member States, and together with the ICAO TCB, purchase firewall equipment for REDDIG II; b) The initial budget assigned for this acquisition would be USD 375,000.00.	Valid	Specifications for hiring the service (MPLS) were drafted and submitted to TCB on 10 February 2020, for the conduction of the bidding process.
22-5	Delays in cost-sharing contributions to Project RLA/03/901 – Argentina and Suriname	That the Secretariat: a) Take action as necessary to inform Argentina and Suriname on the need to comply with the payment of the REDDIG quotas, so that the Project may have the necessary funds network management; and b) Among the actions to carry out, consider sending a letter to this effect, or making a high-level visit to the State.	Valid	Letters have been sent to Argentina (SA5064 dated 24/01/19 and SA5724 dated 03/11/2019) and Suriname (SA5182 dated 13/03/19 and SA5730 dated 04/11/19). Argentina has communicated with ANAC and EANA by e-mail and teleconference regarding REDDIG management, still undefined by Argentina. Regarding Suriname, the Director of the CAD of Suriname was contacted in February 2020, and a reply is being awaited for.
22-6	Approval of the budget for Project RLA/03/901 Rev T	That the Secretariat: a) Take relevant action to allow for the approval by ICAO Headquarters of RLA/03/901 Revision T, shown in Appendix B to this part of the report, for its subsequent submission to REDDIG member States.	Completed	Rev T was duly signed by the ICAO Secretary General

No.	Title	Content	Status	Remarks
22-7	Budget proposal for Project RLA/03/901 Rev U for approval by the States	<p>That the Secretariat:</p> <p>a) Develop a budget proposal Rev U for Project RLA/03/901 that includes:</p> <p>a. The acquisition of firewall equipment in the amount of USD 375,000; and</p> <p>b. An increase in the fellowship budget in the amount of USD 30,000 from 2020 to 2023.</p> <p>b) Conduct a round of consultations with the States for comments and approval of the proposed budget U. Subsequently, hold a virtual meeting of the Coordination Committee to report on the results of the round of consultations and approve the steps for its approval by ICAO.</p>	Valid	Budget proposal Rev U has been prepared, as shown in WP/05.
22-8	Approval of 100 KHZ bandwidth increments in MEVA III	<p>That the Secretariat:</p> <p>a) Take relevant action to amend the contract for the MEVA-REDDIG interconnection as follows:</p> <p>a. As of March 2019, include payment of a monthly amount of USD 100.00 for bandwidth increments (covering Upgrade Stages 1, 2, and 3 of 100 kHz bandwidth increments in MEVA III); and</p> <p>b. As of July 2019 (or when implemented), increase the monthly amount by an additional USD 33.33 (covering Upgrade Stage 4).</p> <p>b) Take relevant action to coordinate with MEVA so that subsequent bandwidth increases or any other REDDIG-related services are promptly communicated for prior approval by the RCC.</p>	Completed	<p>Amendment II to Contract 22501528 addresses Upgrade Stages 1, 2 and 3.</p> <p>Future amendments may address Upgrade Stage 4, as necessary.</p>

No.	Title	Content	Status	Remarks
23-1	Implementation of additional nodes of the REDDIG II ground network (MPLS)	That the Secretariat: a) Make the necessary arrangements for implementation of additional nodes in the REDDIG II ground network as requested by United States (FAA), at no cost for Project RLA/03/901 participants. b) Analyse requests of other States/organisations interested in implementing additional nodes in REDDIG II and submit to the Coordination Committee for approval.	Valid	The United States, Panama and COCESNA have formally expressed their interest in implementing nodes in the REDDIG II ground network.

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