



Agenda Item 5: ICAO regional technical cooperation tools for the implementation of air navigation and safety improvements

Follow-up to the implementation of REDDIG II - Project RLA/03/901

(Presented by the Secretariat)

SUMMARY	
This working paper presents information on the status of implementation of the new South American digital network -- REDDIG II and the necessary considerations for successful implementation of the REDDIG II.	
REFERENCES	
<ul style="list-style-type: none">• Report of the Twelfth Meeting of Civil Aviation Authorities of the South American Region (RAAC/12) (Lima, Peru, 3-6 October 2011);• Report of the Sixteenth Meeting of the Coordination Committee of Project RLA/03/901 (RCC/16) Lima, Peru, 18-20 March 2013;• Report of the Eleventh Workshop/Meeting of the SAM Implementation Group (SAM/IG/10) (Lima, Peru, 13-17 May 2013); and• Technical-operational meeting for the implementation of REDDIG II (Lima, Peru, 9-13 September 2013).	
ICAO Strategic Objectives:	<i>A – Safety C – Environmental protection and sustainable development of air transport</i>

1. Introduction

1.1 The Twelfth Meeting of Civil Aviation Authorities of the South American Region (RAAC/12) approved the start-up of the REDDIG II bidding process, and formulated Conclusion RAAC/12-6 – *Approval to start the bidding process for the implementation of the new digital network REDDIG II*, whereby the civil aviation authorities of the SAM Region agreed to start the bidding process through the ICAO Technical Cooperation Bureau.

1.2 The REDDIG II technical specifications document was developed with the support of ICAO technical cooperation projects RLA/06/901 and RLA03/901, which made it possible for experts of the Region (Argentina and Brazil) to fulfil the task under the coordination of the REDDIG Administration. The technical specifications document was circulated to all REDDIG member States for review. Following this review, the document was sent to the ICAO Technical Cooperation Bureau to start the bidding process.

1.3 The sealed bidding process ST 22501135 “Implementation of REDDIG II” was published on 3 April 2012, originally with a closing date of 1 June 2012 that was subsequently postponed to 15 June 2012. Six companies participated in the bidding process: INDRA, INEO, MORCOM, STELECTRONIC, SCSI, and SITA.

1.4 Before starting the bidding process and for the purpose of evaluating the bids, a document containing technical and financial weighing criteria was drafted. The technical part accounted for 60% of the evaluation and the financial part accounted for 40%. Only those firms that obtained a minimum of 70% in the technical evaluation could proceed to the financial evaluation. The maximum score in the financial evaluation would be assigned to the firm offering the lowest cost.

1.5 The ICAO Technical Cooperation Bureau in Montreal, Canada, evaluated the bids from 18 to 29 June 2012, with the participation of representatives of the following REDDIG member States: Argentina, Brazil, France (for French Guiana), Paraguay, and Peru, and the REDDIG Administration. These representatives were appointed by their respective State in response to a letter sent by the South American Office pursuant to Conclusion RAAC/12-6.

1.6 Upon assessing the six bids, the evaluation group determined that only two of the six firms had obtained 70% of the technical score, the INEO & Level 3 consortium, and INDRA. The other firms that had not obtained 70% of the maximum technical score were not subject to a financial assessment. The lowest financial bid was that of the INEO & Level 3 consortium. Thus, the evaluation group considered that the firm that best met the established requirements, both technical and financial, was the INEO consortium, which was assigned the highest score.

1.7 A website was designed and implemented to provide REDDIG member States with all the information about project RLA/03/901 – *REDDIG management and satellite segment administration system* in a single page. The website address is: <http://www1.lima.icao.int/reddig/>. The website contains information about the REDDIG Administration, CNS/ATM applications, and the REDDIG II. It also contains information about meetings, seminars, and courses related to project objectives.

1.8 The contract between ICAO and the awardee of the REDDIG II bidding process (INEO - Level 3 consortium) was signed on 9 May 2013 with the number ST-22501200, thus starting the execution of the REDDIG contract. The contract will be executed in two phases. In Phase 1, the awardee will prepare the REDDIG II design documents, installation procedures, training manuals, factory acceptance documents, site acceptance documents, and the network management system (NMS). Phase 2 consists of the installation of the REDDIG II, starting in November 2013.

2. Discussion

2.1 Phase 1 of the REDDIG II implementation project was completed on 12 November 2013. In this phase, which started on 21 August 2013, the REDDIG member States, through the focal points appointed by their respective aeronautical authorities, reviewed and approved all the REDDIG II technical design documentation (SDD).

2.2 The REDDIG II Technical-Operational (RTO) meeting held in Lima, Peru, on 9-13 September 2013, served as a forum for a complete revision of the SDD. The meeting was attended by all the focal points of the REDDIG member States, except for Suriname and Venezuela, to review the REDDIG II SDD.

2.3 For a successful implementation of the REDDIG II, all the focal points appointed by the aeronautical administrations participating in project RLA/03/901 must participate actively in all REDDIG II events, since they will be responsible for accepting the installation, and for the operation and maintenance of the node of their respective State.

2.4 Phase II, consisting of the implementation of REDDIG II, is scheduled to start in late November 2012 and will be completed by September 2014. In Phase II, technical-operational meetings will be held as necessary, as well as courses on REDDIG operation, on-the-job training, and provisional and final acceptance tests. The active participation of all focal points is required in this regard. Project RLA/03/901 covers all travel expenditures and *per diems* for no more than two participants from each State for the courses on REDDIG II operation and maintenance. The **Appendix** to this paper presents the draft action plan for the implementation of REDDIG II.

2.5 For a successful implementation of REDDIG II and to allow all REDDIG II member States to have trained personnel for the operation and maintenance of the REDDIG, the following conclusion is submitted to the consideration of the Meeting:

Conclusion RAAC/13-X Facilitating an active participation in all REDDIG II implementation activities

That REDDIG II member States, through the focal points appointed by the aeronautical authorities, participate actively in all the activities scheduled for the installation of REDDIG II, such as coordination meetings, courses, installation, and acceptance tests, and that the corresponding aeronautical authorities facilitate their participation in said activities with a view to achieving a successful installation and having duly trained personnel for the operation and maintenance of the new regional communications network.

3. Suggested action

3.1 The Meeting is invited to:

- a) take note of the information contained in this working paper;
- b) analyse the aspects presented in section 2 of this working paper on the status of implementation of REDDIG II and the activities foreseen, and approve the conclusion presented in paragraph 2.5 of this working paper; and
- c) discuss any other related matter it may deem appropriate.

- - - - -

RAAC/13-WP/10 NE/10

Page 1

