



---

---

**Agenda Item 4: Follow up to the integration of MEVA II and REDDIG networks**

**FOLLOW-UP TO THE STUDY OF THE REDDIG ADMINISTRATION ON MEVA II / REDDIG INTEGRATION**

(Presented by the Secretariat)

**SUMMARY**

This working paper presents information on the follow-up study made by the REDDIG Administration on the MEVA II / REDDIG integration.

**References:**

- Seventh MEVA II / REDDIG Coordination Meeting (Mexico City, 10-11 June 2009); and
- Thirteenth Meeting of the REDDIG Coordination Committee Meeting (Lima, Perú, 9-10 March 2010).

<b>ICAO strategic objective:</b>	<i>D - Efficiency</i>
----------------------------------	-----------------------

**1. Background**

1.1 The Seventh MEVA II / REDDIG coordination Meeting (MR/7) considered it too premature to start with preliminary studies with regard to operational, administrative and institutional aspects for MEVA II / REDDIG integration, in view that the installation of MEVA II / REDDIG had yet to be implemented and there was no operational experience with regard to interconnection.

1.2 Nevertheless, MR/7 considered that the MEVA II and REDDIG administrations should draft a preliminary action plan for the initial study to MEVA II / REDDIG networks integration, formulating Conclusion MR 7/3.

1.3 In addition, in view of the studies that both the REDDIG Administration and MEVA II were carrying out regarding the unavailability of several REDDIG and MEVA II equipment, such as the Viasat Linkway 2100 Modem and the FRAD Memotec 950, MR/7 deemed it necessary that these studies and information were exchanged between the Administration of both networks, for their consideration in the works for the integration of both networks, formulating Conclusion MR 7/4 – *Exchange of information for the MEVA II / REDDIG integration.*

**2. Analysis**

2.1 The REDDIG Administration, in view of the possible bandwidth increase due to the implementation of new services, the years of service of the network and the unavailability in the marked of important equipment part of the network, has drafted a preliminary action plan for the implementation of a new SAM digital network.

2.2 The action plan for the study of this new network is shown in the **Appendix** to this working paper. Same has taken under consideration that the technical configuration of the MEVA II / REDDIG networks would be available once the studies for the SAM digital network are completed.

3. **Action suggested**

3.1 The Meeting is invited to:

- a) Take note of the information presented in this paper; and
- b) Analyze the action plan for the study of a new digital network for the SAM Region, with the aim that it be taken into account during the MEVA II / REDDIG integration study.

-----

## APPENDIX

## ACTION PLAN FOR THE IMPLEMENTATION OF A NEW DIGITAL NETWORK FOR THE SAM REGION

ACTIVITIES	ACTION TO BE TAKEN BY	DELIVERABLE	TARGET DATE	REMARKS
1	2	3	4	5
<b>1</b> Identify current voice and data services requirements, and those scheduled to be implemented in the short, medium and long term in the SAM Region, in support of air navigation	SAM/IG Group for the implementation of CNS improvements	List of services requirements in support of air navigation for the SAM Region, including those scheduled for the short, medium and long term	SAM/IG/6 October 2010	
<b>2</b> Analysis of band width required for the services identified in Activity 1	SAM/IG Group for the implementation of CNS improvements	Amount of band width required to support the requirements specified in Activity 1	SAM/IG/6 October 2010	
<b>3</b> Determination of costs for the band width increase in REDDIG	SAM/IG Group for the implementation of CNS improvements	Implementation costs of new REDDIG services	SAM/IG/6 October 2010	
<b>4</b> Study of the new REDDIG technological platform and determination of its cost	SAM/IG Group for the implementation of CNS improvements	Definition of the REDDIG technological platform	SAM/IG/6 October 2010	
<b>5</b> Study of a ground SAM IP structure supporting the services required and defined in Activity 1, as well as of the band width requirements defined in Activity 2	SAM/IG Group for the implementation of CNS improvements	Definition of a SAM ground IP network model structure	SAM/IG/6 October 2010	

ACTIVITIES	ACTION TO BE TAKEN BY	DELIVERABLE	TARGET DATE	REMARKS
1	2	3	4	5
<b>6</b> Determination of costs for the implementation of Activity 5	SAM/IG Group for the implementation of CNS improvements	Implementation costs of SAM ground IP network structure	SAM/IG/6 October 2010	
<b>7</b> Study on the structure of a mixed (ground and satellite) SAM digital network structure	SAM/IG Group for the implementation of CNS improvements	Model definition	SAM/IG/6 October 2010	
<b>8</b> Determination of the costs for the implementation of Activity 7	SAM/IG Group for the implementation of CNS improvements	Implementation costs of a mixed (ground and satellite) digital network structure	SAM/IG/6 October 2010	
<b>9</b> Comparisons between the network infrastructure models specified in Activities 4, 5 and 7	SAM/IG Group for the implementation of CNS improvements	Comparative study between the ground IP and mixed (satellite and ground) satellite network models	SAM/IG/6 October 2010	
<b>10</b> Determination of SAM network infrastructure model, on the basis of results of Activity 9	SAM/IG Group for the implementation of CNS improvements	Definition of a SAM network infrastructure model	SAM/IG/6 October 2010	
<b>11</b> Acceptance process for the implementation of the network infrastructure model determined by Activity 10, through a public bidding process	SAM/IG Group for the implementation of CNS improvements	Acceptance of the public bidding process for the implementation of a SAM network infrastructure	SAM/IG/6 October 2010	
<b>12</b> Study of an action plan for the integration of the new REDDIG infrastructure with MEVA II network				

ACTIVITIES	ACTION TO BE TAKEN BY	DELIVERABLE	TARGET DATE	REMARKS
1	2	3	4	5
<p><b>13</b> Preparation of technical specifications for the implementation of the SAM network infrastructure specified in Activity 10</p>	<p>SAM/IG Group for the implementation of CNS improvements</p>	<p>Technical specifications for the implementation of a SAM network infrastructure</p>	<p>SAM/IG/6 October 2010</p>	
<p><b>14</b> Presentation of technical specifications to a bidding process</p>	<p>SAM/IG Group for the implementation of CNS improvements</p>	<p>Public bidding process for the implementation of the SAM network structure</p>	<p>Dec 2011</p>	<p>It is expected that this Activity be carried out by the South American Air Navigation and Safety Organizations, to asume, among other aspects, the Administration of REDDIG</p>
<p><b>15</b> Evaluation of offers presented</p>	<p>SAM/IG Group for the implementation of CNS improvements</p>	<p>Assessment of offers</p>	<p>Mar 2012</p>	<p>It is expected that this Activity be carried out by the South American Air Navigation and Safety Organizations, to asume, among other aspects, the Administration of REDDIG</p>
<p><b>16</b> Determination of winning bidder</p>	<p>SAM/IG Group for the implementation of CNS improvements</p>	<p>Designation of winning bidder for the network implementation</p>	<p>Jun 2012</p>	<p>It is expected that this Activity be carried out by the South American Air Navigation and Safety Organizations, to asume, among other aspects, the Administration of REDDIG</p>