

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
SOUTH AMERICAN REGIONAL OFFICE**

**FOURTH INFORMAL MEETING ON THE PLANNING AND
IMPLEMENTATION OF THE SAM DIGITAL NETWORK**

(REDDIG/4)

(Lima, 4 to 8 September 2000)

Agenda Item 3: Network cutover

(Presented by the Secretariat)

This working paper presents for the meetings consideration, the technical-operational and backup features, regarding the beginning of the REDDIG network operation, as well as the measures that must be adopted by the States during this initial period.

1. Introduction

1.1 This working paper is aimed at presenting to the meeting the technical and operational matters regarding the cutover of the REDDIG as well as its operation during the first six months. This working paper also presents the features on regard of the actions and measures that must be taken by the participant States on this matters.

2. The REDDIG cutover

2.1 Once the provisional site acceptance test are conclude satisfactorily, as well as the network operation tests, the REDDIG cutover will take place. The cutover is part of the contract and will be executed by the Contractor under the Project Office survey together with the States assistance.

2.2 The REDDIG cutover comprises the coordinated transfer of the voice and data services to the REDDIG. The manner to be used considers the parallel operation of the actual network with the new one, at least for 60 days, in order to guarantee the continuity of the service in case of contingency during the cutover.

2.3 Should be provided by the CAAs, with in the possibility, the additional voice and data circuits to interconnect their systems to the REDDIG, as well as to keep leased the PTT circuits for at least 60 days after the cutover.

2.4 Another matter to be considered by the CAAs is the modification of the switch program in order to support the automatic operation through both networks to avoid the technical staff intervention in the transfer from one network to another.

2.5 The cutover requires the participation of the technical-operational personnel in each participant State, in order to make the network and systems tests through the REDDIG. In order to guarantee the cutover success, the CAAs must select the staff that have deep knowledge in technical and operational knowledge regarding States current system and that will be connected with the REDDIG.

2.6 The actions described in this section would facilitate the cutover.

3. **REDDIG operation during the first six months**

3.1 As mentioned in the above paragraphs, the States should keep the parallel operation of the REDDIG and its preceding network for at least 60 days, due to that during this period is when the higher amount of failures are produced as a result of the “infant death effect”, after what the system usually acquire the stability.

3.2 During the first six months of operations, the network management will be in charge of the Project Office and will provide 24 hours of service. In the REDDIG management, the technical staff from the different States will participate, obtaining as additional advantage, the training of the personnel regarding the network management. The Project Office will provide well in advance, the contact addresses of the management center.

3.3 With the purpose of keeping the attention and support schemes, each participant State should nominate a group and a chief in charge of the local survey and maintenance of the node. The selected staff should posses the suitable knowledge in REDDIG operation and performance.

3.4 The participant States should provide to the staff in charge of the node maintenance, a telephone line with IDD access to the management center, as well as Internet access in order to facilitate the maintenance tasks. The States should provide the Project Office with the staff data, including its telephone numbers and e-mail addresses.

3.5 The node maintenance groups must report to the management center as routine, the comments on the systems operation, as well as any other event that affects its operation.

3.6 After the six months period, the management and its operation mode will be assumed by the entity designated by the States in common agreement, being it possible to establish a scheme similar to the initial.

4. **Suggested actions**

4.1 The meeting is invited to discuss the matters presented in this working paper and to consider:

- a) The convenience of provides from their systems new circuits to be connected with the REDDIG and keep the parallel operation of both networks during at least the first 60 days.
- b) The necessity of the States to nominee expert technical personnel to attend the network cutover and its global management during the first six months, as well as to select the suitable maintenance and local node survey staff, providing them with the communications facilities specified in the present working paper.
- c) The necessity of planning the future operation mode for the management of the network.