

**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 2: Review of the technical specifications for the SAM digital network
(REDDIG)

(Presented by Peru)

Summary

This working paper presents the offer of Peru to dictate a basic course on “Networks and digital communications” for technical aeronautical personnel of the SAM Region, as a step prior to the training course indicated in the draft REDDIG Project Document .

References:

Draft Regional Technical Cooperation Project Document on the implementation of the SAM Digital Network; and
Third informal meeting on the planning and implementation of the SAM Digital Network (REDDIG/3).

1. Introduction

1.1 In accordance with prior REDDIG meetings, the training of aeronautical personnel must be urged upon to achieve a prompt implementation.

1.2 The traditional communications technology, based on analogue systems, will not be able to support new applications, due to problems in capacity, speed, integration and time. In addition, their exploitation costs are higher than those of the new systems.

1.3 The application of new digital technology and of modern communications standards are required for the digital integration of voice and data aeronautical communications requirements.

2. **Analysis**

2.1 The progressive implementation of the ICAO CNS/ATM systems will make an intensive use of satellite and data link, based on digital technology.

2.2 The successful implementation of these systems requires technical personnel with knowledge in digital communications, networks, protocols, structured cabling and satellite communications.

2.3 This personnel must have the necessary preparation level to be able to exploit, in all its dimension, the technical-operational benefits, as well as provide the necessary safety levels to the service and to the systems and equipment.

2.4 It is convenient that the personnel from the SAM Region to be trained have similar knowledge on the subject, in order to take advantage to the maximum from the provider's training.

2.5 To achieve this objective, the Peruvian administration offers the technical personnel from the SAM Region civil aviation administrations, a "Basic Course on Networks and Digital Communications", as a prior step to those to be included in the REDDIC Project and to the future of the future aeronautical telecommunications network (ATN), as well as a general review of the analogue systems still being used. **Attachment 1** contains the curricula on this course.

2.6 The "Basic Course on Networks and Digital Communications" was given to CORPAC (Peru) technical personnel in 1998 and 1999, which was developed in CORPAC's (Peru) Aeronautical Training Centre (CEA) through the application of theoretical and practical (laboratory) concepts.

2.7 CORPAC's (Peru) Aeronautical Training Centre (CEA) has the infrastructure, updated material, manuals, and modern equipment and instruments that would be at disposal for the execution of the training programme offered.

3. **Action suggested**

3.1 The meeting is invited to take note of the information presented and to the offer from the Peruvian administration, mentioned in paragraph 2.5.