

**Agenda Item 2: Review current and future development and capacities of Regional/domestic digital communication networks of the area of coverage of this Meeting, in order to meet AFS communication requirements.**

2.1 Under this agenda item the Meeting was presented with information on the implementation of Regional/domestic digital networks in the CAR/SAM Regions. The Meeting noted the different technologies considered as well as the time frames for those networks under implementation. It was noted that the CAR/SAM/3 RAN Meeting in considering the developments of digital networks in the CAR/SAM Regions observed the potential problem of interconnectivity and interoperability of digital networks mainly for voice communications due to the possible multiple satellites hops. The Meeting felt that this concept should be understood clearly prior to deal with the agenda item 3 and to propose alternative solutions for the interconnection of different digital networks.

2.1.1 The Meeting discussed the above matter and agreed that the concepts of interoperability, interconnectivity and inter-networking to integrate communication services, should be understood as the capacity to establish voice and/or data connectivity among operational/technical dependencies of different digital networks environments in order to meet the CAR/SAM FASID communications requirements. In this regard and specifically for the voice communications, it was noted that according to ICAO Annex 11 it is not necessary nor cost-effective to establish the connectivity among all the ATS operational dependencies of a network with all the dependencies of other digital networks. It was also considered that unlimited access to other network could be a network policy problem.

2.2 Based on the above the Meeting agreed to use this concept in the process of the discussion of agenda item 3.

2.3 The Meeting received information of several Regional/domestic digital networks implemented to provide voice and data communications services. In this regard it should be noted the following:

**MEVA** “*Mejoras al Enlace de Voz del ATS*” is a VSAT SCPC/DAMA-PAMA network successfully implemented by a multilateral agreement in the Central Caribbean Sub-Region. MEVA has also VSAT terminals in the SAM Region (Panama) and in the Central American Sub-Region (COCESNA). It uses the PAS-5 satellite.

**CENSAT** A MCPC/Frame Relay with hub VSAT network being implemented by COCESNA in Central America to replace the current microwave terrestrial network, due that the frequency band used by the network have been allocated to another service. It is expected to finalize the implementation of the VSAT network during year 2000. It uses the IS-805 satellite

**E-CAR** A terrestrial network implemented on fiber optical cable currently being deployed and partially in operation.

**REDDIG** A TDMA or MCPC Frame Relay or ATM hubless VSAT network with terrestrial back-up being specify to be implemented by means of a multilateral agreement among 13 States in the SAM Region. It is expected to put in operation the REDDIG by end of 2001. It will use the IS-903 satellite.

**Colombian  
VSAT**

**Network** A SCPC/DAMA VSAT network with two Hubs and 34 VSAT terminals with expansion capabilities is in the last stage of implementation by the “Unidad Especial de Aeronáutica Civil” (UEAC) of Colombia, which is the owner of the network. It uses the IS-805 satellite.

**AERONET** A Frame Relay network that combines satellite and ground based technologies being implemented by the “Dirección General Sectorial de Transporte Aéreo (DGSTA) of Venezuela.

**Ecuador  
VSAT**

**Network** A TDM/TDMA star configuration VSAT network with 40 VSAT terminal stations implemented by the “Dirección de Aeronáutica Civil” (DAC) of Ecuador. This network, due to the distance satellite delay and configuration does not have a satisfactory speech communication service.

2.4 In closing the discussion of this Agenda Item, the Meeting was of the opinion that for the digital network interconnections it should be used the available and planned digital networks in the CAR/SAM Regions in order to meet the current and future AFS requirements.

2.5 As a reference the Meeting agreed to attach as **Appendixes A and B** to this part of the summary diagram presenting the Regional digital networks environments of the CAR and SAM Regions respectively.

-----