



Agenda Item 6: Other matters

(Note presented by Colombia)

SUMMARY	
This note of study presents a proposal so that stations VSAT of the Colombian network in some adjacent states are deactivated that are like alternating or back up to network MEVA II/REDDIG, While it is guaranteed the total endorsement and maintenance of network MEVA II/REDDIG.	
References:	
Eight MEVAII/REDDIG Coordination Meeting.	
ICAO strategic objectives:	<i>A – Operational Security</i> <i>D - Efficiency</i>

1. Introduction

1.1 Stations VSAT of Colombian network HUGHES, are in a gradual process of deactivation, is as well as space segment of bandwidth of 6.7 MHz. In February of this year became a reduction of more than 50%, operating at the moment the network on the satellite INTELSAT 805-304.5 with a bandwidth of 3.2 MHz, with the same technology (SCPC/DAMA).

1.2 The previous indicates a reduction in communications (ATS) and stations, where it is guaranteed the aeronautical services in territories in which, by their geographic conditions, are only possible; satellite communications. The Civil aeronautics of Colombia will guarantee the spare parts to prolong the lifespan of this network with the stations that were deactivated of the network.

1.3 With reduction of the satellite segment is still contemplated in the system of Colombian network the following international VSAT stations:

- COCESNA (Honduras-Tegucigalpa)
- PANAMA (Panamá)
- ECUADOR(Guayaquil)
- JAMAICA (Kingston)

They will stay as back up alternating in case integration MEVAII/REDDIG got to fail.

1.4 The shared services that attend at the moment by integration MEVA II/REDDIG with some states of Center America, the Caribbean and South America are of exchanged type of ATS, Hot lines , and services of data (AMHS/AFTN) , which are integrated by means of multiplexer MEMOTEC (REF;CX950).

1.5 As it is known, the manufacturer has stopped producing this type of multiplexer which will generate few spare parts in the future immediate. . In view that Colombian network VSAT supports services (ATS, AFTN, DATA), with the purpose to give endorsement in case of appearing fault of network MEVA II/REDDIG, The administration of Colombia requires to give total guarantee of maintenance in the very near future to maintain the communications with the states of the region through network MEVA II/REDDIG, and thus surely to carry out the technical works and deactivate gradually stations VSAT of Colombia in the states previously indicated.

2. Background

2.1 The satellite network of Colombia, reference HUGHES, begins its operation in the year 2000, and by means of agreements of understanding with some adjacent states, integral, according to the necessity, the communications corresponding to DATA/VOICE installing satellite nodes in COCESNA (Honduras), Panama (City of Panama), Ecuador (Guayaquil) and Jamaica (Kingston). With the antecedent in agreements, technicians of Colombia made the installation, maintenance, provision of spare parts and technical support (telecontrol) of international stations VSAT, from the HUB of Bogota.

2.2 The services at the moment integrated are: data (AFTN), and voice (ATS exchanged) that depend on the located Central telephone office in Bogota (Colombia). For the ATS , there is PABX called HARRIS and for and administrative coordination there is another PABX “ MD-110 “is used , located in Bogota. The used interfaces are analogous (FXO/FXS) for the interface and voice channels , RS-232 for data. In 2008, COCESNA (Honduras) installs a Receiver of HF, Located in the international airport Eldorado (Bogota), where it obtains communications in HF by the Pacific of the South American region, and establishes a channel of data in Frame Relay, for the control and operation of this communication between Bogota and Cocesna, operated in the ACC of Cocesna.

3. Supported Services

3.1 The services that at the moment attend by the satellite network of Colombia are synthesized in the following picture:

STATE	SERVICES OF DATA	SERVICES OF VOICE	OPERATION
Cocesna (Honduras–Tegucigalpa)	Data to 19.2Kbps (Communication Rx-HF)	ATS 33. Ext.6551	NORMAL
Ecuador (Guayaquil)	AFTN (4.8 Kbps)	ATS 30 y Possible ATS37 (Tulcán).Ext. 3482	NORMAL
Panamá (Ciudad de Panamá)	AFTN (4.8 Kbps)	ATS 34 y ATS 58. Ext.6550	IN MAINTENANCE
Jamaica (Kingston)	No apply.	ATS 35. Ext.6552	INOPERATIVE

Note: Services ATS and extention depend on PABX of Colombia.

4. **Suggested Action**

4.1 It is invited to the meeting.

- a) To consider the present information in the study note.
- b) Proposal to fortify and maintain the availability of all circuits that attend by integrated network MEVAII/REDDIG, maintaining high levels of trustworthiness.
- c) Proposal for deactivation the stations VSAT of Colombia , installed in the states of Honduras, Panama, Guayaquil, Jamaica, once MEVAII/REDDIG Administration provides the sufficient redundancy and trustworthiness in served by this network, considering that the critics elements no longer are provided by the manufacturers or suppliers of network MEVAII/REDDIG.
- d) Proposal to have other alternating means for aeronautical fixed services (AFS) with adjacent states of the Caribbean, Center America and the SAM region that serve as Back up or endorsement to network MEVAII/REDDIG.

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