



International Civil Aviation Organization
CAR/SAM Regional Planning Implementation Group (GREPECAS)
**Second Meeting of the Communications, Navigation and Surveillance / Air
Traffic Management Subgroup (CNS/ATM/SG/2)**
(Mexico City, Mexico, 16 to 19 November 2010)

Agenda Item 2: Follow-up to the implementation status of the performance based navigation systems plans for the CAR and SAM Regions and to the latest amendments to the ATM- and CNS-related SARPS

FOLLOW-UP TO THE MEVA II / REDDIG INTERCONNECTION

(Paper presented by the Secretariat)

SUMMARY

This working paper presents information on MEVA II / REDDIG interconnection pending activities, as well as the performance of the services currently in operation in MEVA II / REDDIG.

References:

- Thirteenth REDDIG Committee Coordination Meeting (Lima, Peru, 9-10 March 2010);
- Twenty-first meeting of the MEVA TMG (Mexico City, Mexico, 19-20 April 2010; and
- Eighth MEVA II / REDDIG coordination meeting (MR/8) (Lima, Peru, 17-18 May 2010).

ICAO objectives:	strategic	<i>A – Safety</i> <i>D – Efficiency</i>
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1. Background

1.1 The implementation work for the interconnection of MEVA II and REDDIG is being carried out in two parts:

- a) Interconnection of the Caracas and Bogota REDDIG nodes to the MEVA II network; and
- b) Interconnection of the COCESNA MEVA II node to REDDIG.

Interconnection of the Caracas and Bogota REDDIG nodes to the MEVA II network

1.2 The installation works for the interconnection of the Bogota and Caracas REDDIG nodes to MEVA II network, as indicated in the agreement signed between ICAO and the MEVA II Service Provider (No. 22500187), were completed from 1 to 17 March 2010.

1.3 A Viasat Linkway 2100 modem, two DVP2 E-1 cards for the FRAD MEMOTEC CX 950 equipment (1 for the MPS A and 1 for the MPS B), three two-port L-band dividers, and three L-band combiners, had been installed in the Bogota REDDIG node; and a Viasat Linkway 2100 modem, 4 DAV cards for the FRAD MEMOTEC CX 950 equipment (2 for the MUX A and 2 for the MUX B), three two-port L-band dividers, three two-port L-band combiners and two Datacom Standard 75 Watt C-band amplifiers, had been installed at the Caracas (Maiquetia) REDDIG node.

1.4 To complete the installation permitting the REDDIG nodes to communicate with the MEVA II nodes, the MEVA II Service Provider, prior to installing the equipment at the Bogota and Caracas REDDIG node, had installed the cards required in the FRAD Memotec equipment at each of the MEVA II nodes involved in the MEVA II / REDDIG interconnection (Aruba, Curacao, Jamaica, Miami, Panamá and San Juan).

1.5 The MEVA II Service Provider and the REDDIG Administration proceeded to upload the new software archives pertaining to the interconnection with the MEVA II network, at the FRAD Memotec CX 950 equipment and Viasat Linkway 2100 modem in the Bogota and Caracas nodes and successfully carried out all satellite link trials with Intelsat IS-14.

Interconnection of the COCESNA MEVA II node to REDDIG

1.6 For the COCESNA MEVA II node interconnection to REDDIG, an agreement between ICAO and COCESNA for the MEVA II / REDDIG interconnection was signed on 21 April 2010, to be carried out through Project RLA/09/901. The project takes into consideration the technical, service, and economic aspects for the implementation of the interconnection of the COCESNA MEVA II node with the REDDIG. Initial services envisaged by the project are the ATS speech circuits between the COCESNA ACC (CENAMER) and the Bogota and Guayaquil ACCs.

1.7 The eight MEVA II / REDDIG coordination meeting (MR/8) (Lima, 17-18 May 2010) reviewed a preliminary implementation programme to carry out the COCESNA MEVA II node interconnection works, prepared by the REDDIG Administration. These dates were adjusted taking into account the time required for the acquisition and shipment of the missing equipment for the interconnection of the COCESNA MEVA II node to the REDDIG, the shipment of the MODEM equipment and the coordination necessary between the REDDIG administration, the MEVA II Service Provider and the COCESNA technical personnel.

2. Analysis

2.1 Once the MEVA II Service Provider, in coordination with REDDIG Administration, had completed the installation of the equipment at the Bogota and Caracas REDDIG nodes, proceeded to carry out the trials on voice and data circuits (AFTN) planned in the implementation for MEVA II / REDDIG interconnection.

2.2 Currently, all ATS speech circuits planned in the MEVA II / REDDIG interconnection are operational. With regard to the AFTN circuits scheduled in the MEVA II / REDDIG interconnection, same were initially programmed with the Memotec equipment, but were unable to be tested due to compatibility problems between the protocol used by the instrumentation equipment versus the protocol configured in the Memotec equipment.

2.3 For the implementation of the AFTN circuits in the MEVA II / REDDIG interconnection, consideration will be given to the configuration of the local interfaces installed in each of the States involved in the MEVA II / REDDIG interconnection. It is expected that the installation of the pending AFTN circuits will be completed before the end of the year.

Interconnection of the COCESNA MEVA II node to REDDIG

2.4 In follow-up to the preliminary implementation schedule to carry out the implementation work for the interconnection of the COCESNA MEVA II node to REDDIG, an on-site inspection to the MEVA II node in Tegucigalpa, Honduras, was carried out on 26 July 2010 by the REDDIG Administration and COCESNA technical personnel.

2.5 The REDDIG modem installation at the COCESNA MEVA II node, as well as the implementation of the ATS speech circuits between CENAMER-Bogota and CENAMER-Guayaquil is scheduled for the week between 22 to 26 November 2010.

3. **Action suggested**

3.1 The Meeting is invited to:

- a) Take note of the information presented;
- b) Urge MEVA II and REDDIG members that, through their respective service providers, they complete the installation of the AFTN circuits as soon as possible,; and
- c) Analyze any other considerations in this regard which the Meeting might deem necessary.

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