International Civil Aviation Organization
North American, Central American and Caribbean Office

WORKING PAPER

MIII-RII/INTERCON/02 – CANSNET/01 — WP/05
03/05/22

Second MEVA III REDDIG II Interconnection Coordination Meeting (MIII-RII/INTERCON/02) / Follow-up meeting on the status of development of the CANSNET project (CANSNET/01)
Lima, Perú, 5 and 6 May 2022

Agenda Item 2: Definition of States' responsibilities

REQUIREMENT OF INFORMATION TO THE MEVA NETWORK MEMBER STATES

(Presented by Dominican Republic)

EXECUTIVE SUMMARY	
The purpose of this working paper is to request the Member States of the MEVA Network information on the requirements in order to prepare the Request for Proposal (RFP) for the implementation of the new CANSNET network.	
Action:	The suggested actions are presented in Section 3.
Strategic Objectives:	• Strategic Objective 1 – Safety • Strategic Objective 2 – Air Navigation Capacity and Efficiency
References:	• MEVA/TMG Ad Hoc Group Meeting • WP/06 on MEVA/TMG/36

1. Introduction

1.1 There is a need to update the existing MEVA III Network implemented in 2014, which has performed in accordance with expectations and requirements. The MEVA III network has also seen an increase in services since its inception, which causes the need for greater bandwidth, but it does not support further expansion due to the obsolescence of the equipment used in the network.

1.2 The extension of the MEVA III contract until the end of March 2025, as a result of the crisis in COVID-19 pandemic, delayed the implementation of the CANSNET Network Project (MEVA IV), due to the drop in air operations in the region.

1.3 The Ad-hoc Group has continued to take steps and we are currently in the phase of completing the development of the Request for proposal (RFP) so that by the end of the contract we can have a technical solution that meets the future needs of the States, with a more modern, efficient, safe and reliable network.

2 Discussion

2.1 For the realization of the RFP, it is necessary that the States communicate to ICAO their Voice and Data interconnection needs for the new network in order to be able to establish the requirements of each one in particular.

2.2 Additionally, it is necessary to revalidate the number of existing circuits and the type of connection currently in place, taking the VSAT-SDD document of the MEVA III network as a reference, confirm if these are correct, as well as determine the type and interfaces necessary for interconnection between States.

2.3 Likewise, send the following information together with the requirements in order to complete the RFP of the new CANSNET network (MEVA IV), according to the **Appendix**.

3 Suggested actions

3.1 The Meeting is invited to:

a) review the presented information in this working paper; and

b) establish a deadline for sending this information.

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APPENDIX

SECTION B – GENERAL REQUIREMENTS

1. RESPONSIBILITIES OF THE SERVICE PROVIDER AND OF THE STATES

1.1Service Provider Responsibilities

- SLA 99,995.
- Site Survey prior to the installation of the equipment.
- Internet monitoring of network status.
- Staff training in the Antenna and the Network.
- Local monitoring of equipment.
- Performance of Annual Maintenance of indoor and outdoor systems.
- Maintain spare parts for both indoor and outdoor installations.
- Direct telephone number to report breakdowns or system failures
- Failure report through internet.
- Antenna alignment if necessary.
- Identification of indoor and outdoor RF and Data wiring
- Installation of Rack and system components that are required.
- Guarantee that the equipment is first-hand.
- That the equipment to be installed be of the latest generation

1.2 **Responsibilities of the States**

- Supply the required air conditioning, protection and uninterrupted energy for the indoor equipment.
- Indoor and outdoor wiring channelling route
- Uninterrupted power supply and protection for outdoor equipment.
- Ground connection supply for indoor and outdoor equipment.

2. GENERAL CONSTRUCTION AND DESIGN

2.1 The supplied hardware shall be for the access doors.

2.2 When the equipment is installed in cabinets

3. **ELECTRICAL POWER SUPPLY**

120VAC/60Hz.

4. **ENVIRONMENTAL CONDITIONS**

4.1 Indoor installations in a controlled environment:

- Equipment room with precision air conditioning.
- Raised technical floor for wiring.
- Power Supply 120VAC/60Hz., with UPS supply and backup electrical plant.

4.2 <u>Indoor installations in uncontrolled environment:</u>

4.3 <u>Outdoor installations</u>

- Parabolic antenna of 3.8 meters Prodelin.
- 120VAC/60Hz power at the base of the antenna.

SECTION B – GENERAL REQUIREMENTS

- Lightning rod protection.
- Channelling for RF and Data wiring from the antenna to the equipment room.

5. **PACKAGING**

6. **CABLING**
   - Channel for cable routing of data, RF and energy available.
   - The distance between the indoor and outdoor equipment will be determined in the Site Survey.

7. EQUIPMENT PROTECTION

- Power backup with UPS and emergency plant.
- Earth System.
- Controlled access area.

8. INTEGRATION AND INTERFACES

Shoutlines	
Interconnection between	**Quantity**
Santo Domingo/Miami	3
Santo Domingo/San Juan	2
Santo Domingo/Curacao	1
Santo Domingo/Puerto Príncipe	1
Total	**7**

Switched Lines	
Interconnection between	**Quantity**
Santo Domingo/Miami	3
Santo Domingo/San Juan	2
Santo Domingo/Curacao	1
Santo Domingo/Puerto Príncipe	1
For maintenance	1
Total	**8**

In the case of IP-type Data Ports	
Interconnection between	**Quantity**
Santo Domingo/Miami	1
Santo Domingo/San Juan	1
Santo Domingo/Curacao	1
Santo Domingo/Puerto Príncipe	1
Santo Domingo/ Atlanta for AMHS	1
Santo Domingo / Atlanta for AIDC	1
Total	**7**

SECTION B – GENERAL REQUIREMENTS

9. LANGUAGE, LABELLING AND SIGNAGE

- English and Spanish

10. **RELIABILITY AND AVAILABILITY**

- SLA 99.995.

11. SECURITY

12. TECHNOLOGICAL UPDATING

13. HARDWARE

- If necessary, IP to TDM converters.

14. PROGRAMMES AND APPLICATIONS

15. EXPANSION CAPACITY

- Conversion possibilities if necessary TDM to IP or IP to TDM.
- Possibilities of adding other interfaces, switched lines and Shoutlines.

16. **SITE VISIT AND TECHNICAL MEETING**

- One visit a year for system maintenance

17. **SYSTEM LIFE**

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