



ICAO

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

WORKING PAPER

E/CAR/NTG/13 & E/CAR/RD/11 — WP/06  
18/10/24

**Thirteenth Eastern Caribbean Network Technical Group (E/CAR/NTG/13), Eleventh Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/11) Meetings**  
(Miami, United States, 21 October 2024)

**Agenda Item 3: Operation and Performance of the E/CAR Aeronautical Fixed Services (AFS) Network**  
**3.2 E/CAR Network Interconnections and Integration**

**CANSNET and ECAR Network interconnections**

(Presented by the Secretariat)

<b>EXECUTIVE SUMMARY</b>	
This Working Paper integrates a proposed o interconnection between the new Caribbean Air Navigation Services Network (CANSNET) and the Eastern Caribbean Network.	
<b>Action:</b>	Suggestion actions are presented in Section 4.
<b>Strategic Objectives:</b>	<ul style="list-style-type: none"><li>• Safety</li><li>• Air Navigation Capacity and Efficiency</li></ul>
<b>References:</b>	<ul style="list-style-type: none"><li>• Fortieth Meeting of the North American, Central American and Caribbean Working Group Communications Task Force NACC/WG/COMM/TF/40, Mexico City, Mexico, 23 to 26 July 2024.</li></ul>

**1. Introduction**

1.1 In 2018, during the MEVA/TMG/33 meeting, MEVA III members identified the need to review the network architecture and services, to guarantee support for the growing bandwidth demands, created by the new technologies for exchanging and providing quality data, in real-time, intended for all those involved in decision-making.

1.2 The new network intending to cover in its name the new possibilities and services that the future telecommunications network would provide, the members of MEVA/TMG agreed to name the new network as 'Caribbean Air Navigation Services Network' (CANSNET).

1.3 The CANSNET members with ICAO support completed a bidding process of CANSNET where Frequentis was the select bidding process winner.

## 2. Discussion

2.1 During the Fortieth Meeting of the North American, Central American and Caribbean Working Group Communications Task Force NACC/WG/COMM/TF/40, it was discussing the interconnection of CANSNET and the Eastern Caribbean States, and the technical group made the following decision:

<b>DECISION</b>	
<b>NACC/WG/COMM/TF/40/02 Interconnection of CANSNET Network with adjacent Regional communication network (REDDIG Network)</b>	
<p><b>What:</b></p> <p>That,</p> <p>a) Each CAR CANSNET member with a need for communications with SAM States must provide a list of interconnection needs no later than <b>20 September 2024</b>, and Interconnection requirements will be evaluated jointly between the CAR and SAM States involved, for which the ICAO NACC Regional Office will make the necessary arrangements before <b>25 September 2024</b>.</p> <p>b) Frequentis will update the information about the implementation and cost of the interconnection of both networks.</p> <p>The same coordination will cover ECAR-CANSNET interconnection.</p>	<p><b>Expected impact:</b></p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Operational/Technical</p>
<p><b>Why:</b></p> <p>It is important to define and clarify REDDIG and CANSNET interconnections and other adjacent regional telecommunication networks, also to define a backup interconnection of both networks.</p>	
<p><b>When:</b> 20 and 25 September 2024</p>	<p><b>Status:</b> <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed</p>
<p><b>Who:</b> <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input checked="" type="checkbox"/> Others</p>	<p>ICAO NACC, CANSNET Members, FREQUENTIS</p>

2.2 Interconnect E-CAR Network will be implemented using and providing automatic ring down (ARD) connections from Sint Maarten to FXS1 interfaces at San Juan, Puerto Rico, which are then interconnected to FXO2 interfaces provided by the E-CAR network.

2.3 Part of the discussion the CANSNET Members propose that That the cost of interconnection of both networks will be covered by the CANSNET States, but that the cost of the equipment on the ECAR side should be covered by ECAR Network.

## 3. Needs

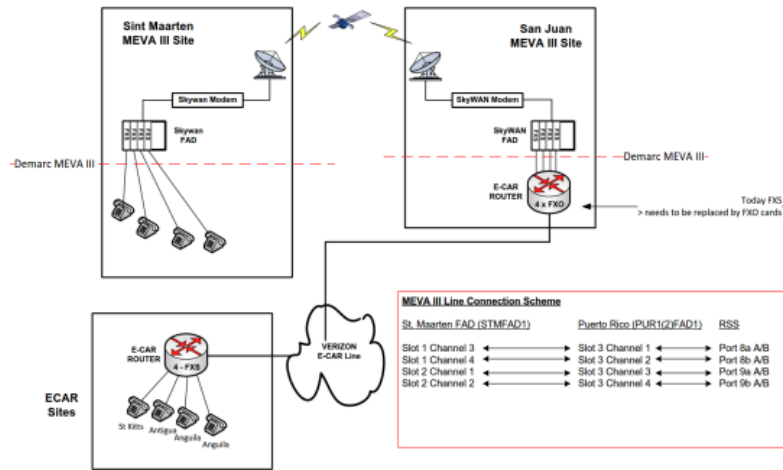
3.1 We are confident that the implementation of a connection between the two networks will provide a boost to regional communications in terms of availability and security, in addition to providing backup mechanisms for the ECAR network.

3.2 If the proposal is accepted, it is necessary for the ECAR network administration to work on the definition of the connection objectives, to make the technical proposal so that the providers can carry out the economic analysis and formalize a connection proposal, which must be finalized no later than 15 November 2024.

## Interconnect E-CAR

- Connection to the E/CAR network will be implemented providing ARD connections from Sint Maarten to FXS interfaces at San Juan, Puerto Rico that are then interconnected to FXO interfaces provided by the E/CAR network.

- Anguilla
- Anguilla
- Antigua
- St.Kitts



## 4. Suggestion actions

4.1 The meeting was invited to:

- approve the CANSNET and ECAR interconnexion;
- create an ad-hoc group responsible to create the action plan;
- provide technical requirements by November 5, 2024; and
- any other require action.