



ICAO

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WORKING PAPER

E/CAR/NTG/7 & E/CAR/RD/5 — WP/11  
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**Seventh Eastern Caribbean Network Technical Group (E/CAR/NTG/7) and  
Fifth Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/5)**  
Basseterre, St. Kitts and Nevis, 17 – 18 October 2016

- Agenda Item 4: Surveillance Sharing Activities**  
**4.2 Surveillance sharing update: Antigua and Barbuda, Guyana, Sint Maarten, Trinidad, and Tobago, United States (San Juan), Venezuela**

**SURVEILLANCE SHARING UPDATE**

(Presented by Trinidad and Tobago)

<b>EXECUTIVE SUMMARY</b>	
This paper presents the surveillance sharing activities planned in the future between E/CAR Region with Venezuela and Guyana.	
<b>Action:</b>	The suggested actions are presented in Section 3.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"><li>• Safety</li><li>• Air Navigation Capacity and Efficiency</li></ul>
<i>References:</i>	<ul style="list-style-type: none"><li>• Fourth Eastern Caribbean Network Technical Group (E/CAR/NTG/4) and Second Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/2) Meetings.</li></ul>

**1. Introduction**

**E/CAR/Region/Trinidad and Tobago- Venezuela Radar Exchange**

1.1 Trinidad and Tobago and Venezuela expressed interest in the exchange of radar data in order to improve the redundancy, availability and quality of the existing radar data in the Maiquetia and Piarco FIRs. The Maiquetia FIR is currently all covered by radar. Trinidad and Tobago wanted to improve radar surveillance in the South Sector of the Piarco FIR for radar control. Venezuela was interested in implementing radar coverage in the Northern part of the Maiquetia FIR (around Isla de Aves- Bird Island) for radar control. Both Trinidad and Tobago and Venezuela were interested to have radar redundancy to support current radar coverage.

1.2 In this regard the following radars were initially identified to best satisfy these requirements:

- Southern Sector of PIARCO FIR: Puerto Ordaz
- Northern part of the Maiquetia FIR: Guadeloupe or Martinique
- Radar redundancy: PIARCO and Porlamar
- For radar control: Monoradar data required (CAT 01 and 02)

1.3 Several teleconferences were facilitated by ICAO NACC and SAM Regional Offices between Trinidad and Tobago and Venezuela to further the exchange of information. Theoretical coverage maps were exchanged, the medium of communication through the REDDIG was agreed and the format for data exchange was discussed.

1.4 Venezuela and Trinidad agreed to carry out radar data sharing by phases. In the first phase to share the radar data for radar redundancy and the second phase for the radars of Guadeloupe/Martinique and Puerto Ordaz. An initial action plan was drafted. France confirmed that Guadeloupe and Martinique radar feeds are available on PIARCO and initially this data can be used for the corresponding trials and evaluation from Venezuela when Phase II is carried out.

1.5 Venezuela subsequently informed that only the exchange of radar data PIARCO and Porlamar was feasible, nevertheless Trinidad and Tobago proposed a face-to-face meeting with Venezuela to have an on-site review of the Porlamar radar presentation and have the follow-up to the previous bilateral agreements (2010). In this regard, a bilateral meeting was planned between Trinidad and Tobago and Venezuela and a letter of invitation was issued to Venezuela through both ICAO offices.

### **E/CAR/Region/Trinidad and Tobago- Guyana Radar Exchange**

1.6 Guyana implemented one (1) ABS-B receiver in 2014 in Timehri. Guyana has plans to implement a second receiver to expand their ADS-B coverage area.

## **2. Discussion**

2.1 In order to move forward with the sharing of radar data between Venezuela and Trinidad and Tobago, a re-engaging of the parties is required to revive this planning.

2.2 Guyana and Trinidad and Tobago have expressed an interest in sharing of surveillance data but no information has been exchanged. In this regard, a bilateral meeting to discuss the way forward may be beneficial.

**3. Suggested actions**

3.1 The Meeting is invited to:

- a) Take note of the pending action to move forward with the bilateral meeting between Venezuela and Trinidad and Tobago;
- b) take note of the progress achieved by Guyana regarding ADS-B implementation and the pending action to initiate a bilateral meeting; and
- c) Agree to any other actions as deemed appropriate.