



ICAO

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

WORKING PAPER

E/CAR/NTG/10 & E/CAR/RD/8 — WP/08

31/08/21

**Tenth Eastern Caribbean Network Technical Group and Eighth Eastern Caribbean Radar Data Sharing  
Ad hoc Group Meetings (E/CAR/NTG/10 & E/CAR/RD/8)**

Online, 6 to 7 September 2021

**Agenda Item 4: Surveillance Sharing Activities**

4.1 Surveillance/Automatic Dependent Surveillance – Broadcast (ADS-B) / Multilateration (MLAT) Developments/Updates

**DEVELOPMENTS IN THE AREAS OF AUTOMATIC DEPENDENT SURVEILLANCE – BROADCAST (ADS-B)/MULTILATERATION (MLAT) IN THE PIARCO FIR**

(Presented by Trinidad and Tobago)

<b>EXECUTIVE SUMMARY</b>	
This paper presents information on developments in the areas of Automatic Dependent Surveillance – Broadcast (ADS-B)/Multilateration (MLAT) in the Piarco FIR.	
<b>Action:</b>	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><li>• Economic Development of Air Transport</li><li>• Environmental Protection</li></ul>
<i>References:</i>	<ul style="list-style-type: none"><li>• E/CAR/NTG/09 &amp; E/CAR/RD/7 Meetings</li></ul>

**1. Introduction**

1.1 Among the Block Upgrades, the Block 0 module “Initial Capability for Ground Surveillance” recommends States to implement ADS-B, which provides an economical alternative to acquire surveillance capabilities especially for areas where it is technically or commercially not feasible to install radars.

1.2 The Surveillance Concept for Piarco FIR includes the provision of ADS-B services to augment the exiting SSR source of surveillance. The analysis of trial data showed that over sixty percent (60%) of aircraft transiting the Piarco continental airspace are equipped for ADS-B. The Piarco ACC shall be repository for all the ADS-B/WAM data processing where the data will be integrated into the Piarco ATM System and the Multi Radar Tracker (MRT). The combined data from all available surveillance sources will be available over the E/CAR AFS Network for distribution to the E/CAR States.

**2. Discussion**

2.1 In August 2018 the TTCAA engaged ICAO TCB for the ADS-B/WAM project for the procurement and implementation of ADS-B within the continental airspace and WAM in the South Sector of the Piarco FIR. After open tendering process and evaluation, the successful vendor, meeting the technical requirements, was recommended by ICAO.

2.2 Due to the Covid-19 pandemic, the contract, although negotiated, has been on hold. The project initially envisaged to be completed in 2019 is now rescheduled to start in the first quarter of 2022 and be completed in phases by the first quarter 2023. This schedule is tentative pending any developments in Covid-19 that may adversely affect travel related matters.

**3. Suggested actions**

3.1 The meeting is invited to:

- a) Take note of the information provided; and
- b) agree to any other actions as deemed appropriate.