



ICAO

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

WORKING PAPER

(E/CAR/NTG/6 & E/CAR/RD/4) WP/14  
13/07/15

**Sixth Eastern Caribbean Network Technical Group (E/CAR/NTG/6) and Fourth Eastern Caribbean Radar Data Sharing Ad-hoc Group (E/CAR/RD/4) Meetings**  
Miami, United States, 13 - 14 July 2015

**Agenda Item 4: Surveillance Sharing Activities**  
**4.4 Update ADS-B/Multilateration Implementation in Barbados**

**BARBADOS REPORT ON MLAT ADS- B IMPLEMENTATION.**

(Presented by the Barbados)

<b>EXECUTIVE SUMMARY</b>	
This paper presents the MLAT and ADS-B Implementation in Barbados.	
<b>Action:</b>	Review the information provided on this implementation
<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>• E/CAR/AFS failure reports</li></ul>

**1. Summary:**

1.1 The Barbados Multilateration ABS –B project is designed to provide enhanced surveillance coverage and modernise the current Air Traffic Control System. It consists of the following elements:

- Implementation of a Wide Area Multilateration and ADS B system provided by SELEX using seven sites located primarily along the coastal areas of Barbados utilizing existing Mast and Infrastructure.
- Implementation of Tracking of Airport operational vehicles on the surface in the manoeuvring area.
- Upgrade /replacement of its existing Radar processing equipment with a Flight Data processing System( FDPS) and Surveillance Data Processing System ( SDPS) providing the facility Integrate with and display data received from the Radar data server in Trinidad
- Provide Air Traffic Control with Safety Net Features consistent with the requirements of modern Air Traffic Management System.
- Provision of Replacement IDS SYSTEM for the obsolete the ATOM system.

*Current stage and Time lines*

1.2 To date Initial software customization issues have been addressed with Barbados Air traffic Control and Selex. The project is currently approaching the Factory Training and testing stage expected in early August.

1.3 It is expected that the operator Training phase can occur in December 2015.

— END —