



**Agenda Item 2:**

**Air Navigation Matters**

**2.1 Implementation of the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (NAM/CAR RPBANIP)**

- **Optimization and modernization of the communication infrastructure**

**SURVEILLANCE SOLUTIONS**

(Presented by Barbados)

**SUMMARY**

This working paper aims to get the Meeting to review the status of radar surveillance in the E/CAR Region and to develop a comprehensive plan on the implementation of GNSS surveillance solutions to move the Region forward.

**References:**

- E/CAR/WG/22 Report
- E/CAR/WG/31 Report

**Strategic Objectives**

*This working paper is related to Strategic Objectives A – Safety and D – Efficiency.*

**1. Introduction**

1.1 At the E/CAR/WG/22 Meeting a Radar Data Sharing Task Force was established, charged with the responsibility for developing a programme to effectively integrating all the radar systems in the E/CAR Region to accomplish full radar coverage. Some twelve years later in 2010, this has still not been accomplished.

1.2 The Meeting elected the French Antilles as Rapporteur of the Radar Data Sharing Task Force whose programme was to:

- Implement the DACOTA System to integrate all the radar systems in the Region and provide a single image to all participating Air Traffic Services facilities for air traffic control.
- Link the Martinique and Guadeloupe radars into a single radar image for air traffic control.
- Remote the Martinique's radar image to St. Lucia.
- Integrate the Trinidad and Tobago, Barbados, Martinique and Guadeloupe radar images into a single radar image and provide Trinidad and Tobago and Barbados with the resultant to conduct air traffic control.

## **2. Status**

2.1 To date the status of the radar data sharing implementation plan is as follows:

- Martinique and Guadeloupe radars have been linked by the DACOTA system.
- Antigua installed a SSR but it was not implemented.
- Barbados upgraded its radar system to a MSSR.
- The equipment for the remoting of the Martinique's radar to St. Lucia has been installed.
- The E/CAR/WG/31 Meeting questioned the French Antilles ability to manage the radar data sharing programme and suggested that the programme should be conveyed to Trinidad and Tobago.
- The French Antilles promised the E/CAR/WG/31 Meeting to communicate their future in the programme and to conduct a teleconference on the matter by 31 December 2009. The teleconference never took place.
- Remoting the Barbados radar to Piarco has reached an advanced stage in the programme.

2.2 States are required to update the Meeting on the status of their PBN Implementation Plan so that the meeting could be informed on the achievements of the Regional PBN Implementation Plan.

## **3. Recommendations**

3.1 The meeting is asked to agree on the proposed recommendations.

- Review the progress of the Radar Data Sharing Task Force charged with the responsibility for managing the radar implementation plan.
- Complete the radar remoting of radar to St. Lucia by 31 December 2010.
- Complete the remoting of the Barbados radar to Trinidad and Tobago by 15 November 2010.
- Complete radar data sharing between Trinidad and Tobago, Barbados and the French Antilles by June 2011.
- Considering CNS is moving to phase out radars in 2025, agree upon the implementation of Multilateration as the first phase of transition to ADS commencing in 2011. States should be encouraged to implement Multilateration systems instead of radar systems.
- Recommendations to be implemented are normally contained in meeting reports and it seems that little attention is paid to these. ICAO should urge States to take action to implement recommendations for action by States.

## **4. Action Required**

4.1 The meeting is requested to:

- a) note the contents of this paper; and
- b) take the necessary actions on the recommendations provided above.