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

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WORKING PAPER

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**
         4.3   **Implementation of radar data sharing tasks**

**IMPLEMENTATION OF RADAR DATA SHARING
ACTIVITIES**

(Presented by the Secretariat)

EXECUTIVE SUMMARY
This working paper presents an overview of the radar data sharing activities achieved and the need for the update of the implementation plan on these matters to encompass all the radar data related actions for informing the E/CAR Directors as mandated.

Action:	The suggested actions are detailed in section 3
Strategic Objectives:	• Safety • Air Navigation Capacity and Efficiency
References:	• Fifth Eastern Caribbean Network Technical Group (E/CAR/NTG/5) and Third Eastern Caribbean Radar Data Sharing Ad hoc Group (E/CAR/RD/3) Meetings, Guadeloupe, French Antilles, France, 22 to 24 October 2014. • Twenty-fifth Meeting of Directors of Civil Aviation of the Eastern Caribbean (E/CAR/DCA/25), St. John's, Antigua and Barbuda, 3–5 December 2013

1.   **Introduction**

1.1   During the E/CAR/NTG –RD and E/CAR/CATG/01 Meeting, the E/CAR States and Territories recalled that the agreement for a Central Radar Data server and the agreement for sharing/using the radar data among the E/CAR States and Territories represent an important improvement on safety and efficiency with notable improvements on ATC situational awareness in the region. The radar data sharing activities represent the commitment of the region for achieving the foreseen situational awareness improvements and to promote future improvements in air traffic control services.

1.2   From the E/CAR/RD/3 Meeting, the following actions are highlighted:

   a)   an overview of the radar data sharing activities achieved by 2014,
   b)   the rename of the existing "Radar Data Sharing Action Plan" to "Surveillance Data Sharing Action Plan" to expand the scope of this plan to other surveillance techniques; and
   c)   Adoption of DECISION E/CAR/NTG/5/12 SURVEILLANCE DATA SHARING IMPLEMENTATION ACTION PLAN for France, Trinidad and Tobago, United States, and ECCAA to develop an update for the Surveillance Data Sharing Action Plan to encompass all the radar data related actions to inform the E/CAR Directors.

1.3   The Surveillance Data Sharing Implementation Action Plan shall considered the recent events in radar data sharing matters, such as:

   • The Request for Information (RFI) Process results
   • The French donated CPUs implementation - hands-on experience and practical view for using radar data displays
   • Availability of the radar data within the E/CAR AFS Network
   • Availability of the MRT data in each user site
   • Availability of RASA guidance on OECS States
   • Review of radar data coverage in the area (Antigua, Barbados, Guadeloupe, Martinique, Sint Maarten and Trinidad and Tobago)
   • Radar Data from United States sites
   • Analysis of real radar coverage in States as done for Grenada and Saint Vincent and the Grenadines

1.4   The progress made in the surveillance activities in the E/CAR Region were presented to the ANI/WG/2 Meeting.

2.   Discussion

2.1   In the Surveillance Data Sharing Implementation Action Plan the following milestones should be included and reviewed:

   • RFI E/CAR Radar Display process completion
   • Radar Data sharing- Data integration
   • Integration of Barbados Radar: Jan.-March 2015
   • Integration of Antigua Radar: June-Dec. 2015
   • Integration of Sint Maarten Radar: Apr.- Oct. 2015
   • Evaluation of integrating United States radars: Jan.-Aug. 2015
   • Other radar integration (Venezuela): March 2015-Dec. 2015
   • Installation of French donated CPUs: Dec.-April 2015
   • Configuration of switches for donated CPU installation: Nov.- Dec. 2014
   • (Maintenance visits)
   • E/CAR radar display acquisition
      o ECAR Radar Display Tender- preparation of RFP: June-Oct. 2015
      o ECAR RD Tender- process: Jan.-March 2016
      o ECAR RD Selection: April 2016
      o ECAR RD Implementation: July-Dec. 2016
   • Preparation for ADS-B trials: Oct. 2015-Nov. 2016

2.2   From the E/CAR/NTG/05 Meeting, it was agreed that the RDS Task Force shall conduct the recollection of the users' requirements and the development of the RFP document.

2.3   Some updates to the surveillance data activities since the E/CAR/NTG/05.RD/3 Meeting are:

- St. Kitts and Nevis complete their formal request for the French Donated CPU-Radar Data Displays
- Most French donated CPU installed in 2Q 2015
- MRT radar data and multicasting of the radar data is available in the E/CAR AFS Network
- ADS-B Trial conducted by Trinidad and Tobago: ADS-B Implementation Meeting – May 2015
- Regional adoption of some ADS-B guidance like the ADS-B Station Technical Reference and the initial ADS-B Operational Concept (CONOPS) as adopted by the ANI/WG/02 Meeting
- Radar Data Sharing Group name changed to Surveillance Data Sharing Group

2.4   The E/CAR States and Territories should inform the meeting on:

- For the ones implementing the French CPUs to inform of their operational experience, report performance of the service and provide comments to the provision and experience of this new service
- Inform of any update to the radar data exchange activities for ex. With the SAM region
- Report their surveillance system planning, Radar, MLAT and ADS-B. This information is to be reported to ICAO and the E/CAR/CATG for its inclusion in the Regional Surveillance System Plan.
- Identify operational improvements regarding surveillance implementation

2.5   The Surveillance Data Sharing Implementation Action Plan and the progress on surveillance activities shall be ready for its presentation to the E/CAR/DCA/26 Meeting by the E/CAR/NTG-RD Group.

3.   Suggested Actions

3.1   The Meeting is invited to:

a)   take note of the E/CAR surveillance Data Sharing achieved activities and recent progress;

b)   France, Trinidad and Tobago, United States, and ECCAA to present the Surveillance Implementation Action Plan;

c)   inform of the actions detailed in paragraph 2.4; and

d)   take any other action as deemed necessary.

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