



International Civil Aviation Organization

NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE

Twenty-Eighth Eastern Caribbean Working Group Meeting (28 E/CAR WG)

Montserrat, 26 to 30 April 2004

28 E/CAR WG – WP/31

19/04/04

Agenda Item 3: Specific Air Navigation Activities and Developments
3.7 Communications, Navigation and Surveillance (CNS)

E/CAR RADAR DATA SHARING

(Presented by France)

SUMMARY

Status of the projects dealing with radar data sharing in the E/CAR Region.

1. Introduction

1.1 The E/CAR Radar Sharing Task Force aims at dealing with two projects of radar data sharing in the E/CAR region : Remote Radar Image in Saint Lucia and Common Seamless Radar Image.

1.2 This Working Paper takes stock on the radar data sharing projects.

2. Remote Radar Image in Saint Lucia

2.1 The project of remoting a radar image in Saint Lucia was born in the late 90's. The general LOA between France and OECS has been signed on November 2003. Since this date, the project is under construction by France.

2.2 The project includes the providing of radar visualization material and software, as well as radar data from Martinique to Saint Lucia. OECS is in charge of the data transportation. The IACL network will be used to carry the radar data. A list of network requirements has been sent to IACL. France is waiting for the IACL answer for further steps.

2.3 Some French technical meetings have already been held in order to assess technical points (local network architecture, required materia l...). Some compatibility tests between local and IACL networks are to be carried out soon. A visit of the Saint Lucia's airport's by French technical staff is possible in June 2004. A schedule of the project should be available at this time.

2.4 The project is not supposed to be completed before second semester of 2005.

3. E/CAR Common Seamless Radar Image

3.1 The project aims at providing a common seamless radar image to any country in the E/CAR region. This image should be built using all the available radars in the E/CAR, that is today Antigua & Barbuda, Barbados, Guadeloupe, Martinique and Trinidad & Tobago. The unique image will be computed by the French DACOTA tool.

3.2 This project is already started ; the French radars are already integrated and a single image is available for Martinique and Guadeloupe. The Requirements for the provision of other radar's data recording are under construction. The integration of the multiple radar sources in DACOTA will take place progressively (depending on each radar). This integration of each radar in DACOTA will take place in two main phases : the mono-radar evaluation/integration and the multi-radar evaluation/integration. The French National Technical Service (STNA) is in charge of the technical integration of the E/CAR radars.

3.3 *Requirement for radar data recording*

3.3.1 **Content:** ASTERIX category 01 (Mono-radar Target Reports) and 02 (Monoradar Service Messages) data (standard document available at <http://www.eurocontrol.int/asterix/latest.html>)

3.3.2 **Format:** PC File

3.3.3 **Duration:** 2 hours of live traffic at least

3.3.4 **Media:** Diskette (zip file if necessary), CD or by E-mail

3.4 *Available material*

3.4.1 This table indicates what documentation and Data Recording are available so far at STNA.

Radar	Technical Documentation	Live Data Recording	Technical Contact	Remark/Question
Barbados	Interface Control Document for the CONDOR MK2 ASTERIX radar data output (ref IC 808136/801 issue 3 june 2002 provided by Raytheon GB)	The recording provided by Barbados contains south England traffic and was probably made at factory. A new one made in Barbados with actual on site implementation should be provided (use the Radar Maintenance Monitor).	Mitchinson BECKLES (BARBADOS)	Is the ICD document available in Barbados ? If yes, could you precise data items produced by Barbados radar (for example some optional items are selectable) ?
Antigua	Like Barbados, could you provide an ICD document for your ASTERIX radar data output ?	Do you have a recording tool for your radar data output ?	Maurizio MARAZOTTI (ALENIA)	

Radar	Technical Documentation	Live Data Recording	Technical Contact	Remark/Question
Trinidad and Tobago	Interface Control Document RAMP RSE to RAMP DES 95/05/01	2 diskettes of Radar Data recorded with a protocol analyser. These recording could'nt be read on STNA analysers. Documentation analysis shows that your output format is not ASTERIX.	Andrew RAMKISSOON (CAA PIARCO)	

4. Next meeting of the “Radar Sharing Task Force”

4.1 As the 2 projects are entering an active phase, France proposes that the RSTF/3 could be held in the late second semester of 2004. Date and place have to be defined.

5. Suggested Action

5.1 The meeting is invited to

- a) review the information provided in this WP
- b) encourage the Barbados, Antigua and Trinidad & Tobago to provide France with the required technical information on their radars
- c) discuss the location and date of the next RSTF Meeting