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INFORMATION PAPER

E/CAR/NTG/5 & E/CAR/RD/3

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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, France, 22 to 24 October 2014

Agenda Item 3: Overview of Radar Data Sharing Activities

3.1 Follow-up on radar data agreements and teleconferences

ACTION PLAN FOR FWI TO SUPPORT THE RADAR DISPLAY INSTALLATION

(Presented by France)

EXECUTIVE SUMMARY

This working paper presents a tentative action plan for the installation of IRMA2000 radar displays in States that did official requests.

Action	The suggested action is in Section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• First Eastern Caribbean Civil Aviation Technical Group Meeting (E/CAR/CATG/1) Martinique, French Antilles, France, 19 to 21 June 2013

1. Introduction

1.1 France has proposed to deliver, free of charge, radar display software and a computer (CPU/keyboard/mouse only) to promote radar evaluation and use in the E/CAR Region to increase safety with the enhancement of the situational awareness.

1.2 The way the system is used is under the responsibility of the State where installed. SNA/AG strongly recommends limiting the use of this system to non-operational experimentation, as there is no operational support, no warranties on availability nor other performances, no operational training for ATCOs, no letter of agreement for the delivery of the radar data.

1.3 The systems delivered are supposed to be used only for familiarization, to experiment the benefit of using available radar coverage, to start defining local procedures and safety cases. The delivery of these systems is also aimed in achieving the operational benefits foreseen in the E/CAR Region in accordance to the NAM/CAR Regional Performance-based Air Navigation Implementation Plan (RPBANIP) follow-up by the Eastern Caribbean Civil Aviation Technical Group (E/CAR/CATG) under the E/CAR Radar Data Sharing Ad-hoc Group and promoted by ICAO.

1.4 The system will be delivered for 18 months with minimum support. After that period, SNA/AG will transfer the property of the IRMA2000 CPU to the State and SNA/AG support will end. The system does not have any cost for the State except identified prerequisites (screen, power...).

1.5 As SNA/AG is providing French radar data for familiarization, no letter of Agreement will be signed, and no preliminary information will be given for programmed radar cut (except for Trinidad and Saint Lucia, letters of agreement existing).

2. Discussion

2.1 List of States identified:

State/territory	Responded to Donation State Letter	Comments
Dominica	1 unit Melville Hall	2014-03-05 Letter Dominica
Montserrat	1 unit, information provided	2014-04-22 Letter Monserrat
Antigua and Barbuda	2 units required	2014-05-22 Antigua Letter 7/298 II
Barbados	1 unit	2014-05-27 letter BARBADOS 2105/3/1
Grenada	1 unit	2014-06-23 Grenada Letter
Saint Vincent and the Grenadines	1 unit	2014-09-26 Letter Saint Vincent AD/ AB 37
Trinidad	For interoperability trials only	
Anguilla	No information	
Saint Kitts and Nevis	No information	

2.2 This list has to be confirmed during E/CAR/RD3 meeting.

2.3 Proposed order and planning for installation

Order	State/territory	Date
1	Dominica	T1 + 1 month
2	Montserrat	T1 + 2 months
3	Saint Vincent and the Grenadines	T1 + 2 months
4	Grenada	T1 + 3 months
5	Antigua and Barbuda	T1 + 3 months
6	Barbados	T1 + 4 months
7	Trinidad	T1 + 4 months
	Anguilla	T1 + 1 month
	Saint Kitts and Nevis	T1 + 1 month

T0 : starting time : DACOTA radar data (Asterix cat 30 MacLLC) available on E/CAR network, in Guadeloupe or in Martinique.

T1=T0+2 weeks : time to test the radar data sent via E/CAR on IRMA2000 Radar display.

2.4 Mode of operation for each State

2.4.1 *Preparation*

- Initiation of exchanges by email.
- Definition of the radar configuration : maps, display center and validation of the radar display picture by mail (jpeg of the display with maps)
- Preparation of the installation (technical prerequisites : cables, screen, power, etc)
- Definition of a date for installation and basic training

2.4.2 *Installation*

- SNA/AG comes on site with CPU, install it, , switch it on, and test it. Estimated time: 3 hours, depending on technical difficulties. It is recommended that technician(s) that are to be train are participating to the installation

2.4.3 *Basic Training*

- SNA/AG will let basic user documentation, and will train technicians then ATC users.
- Technical presentation will be proposed to local technical staff : the processes, how to restart the system, points of contacts in SNA/AG in case of problem. Estimated time : 1 hour, 3 persons max.
- Simple demonstration of the capacity of the tool will be presented for ATCO(s) / trainer(s) using the IRMA2000 User Manual. That presentation will indicate how to use the system and its menus. Estimated time : 2 hours, 3 persons max.

2.4.4 *Facilities*

- the State will be responsible for organizing that day and inviting ATCO and technicians who should attend the installation and the presentations
- the State will be responsible for customs facilities and transportation to the room where the system will be installed
- the State is responsible for the delivery of needed prerequisites as defined in the document “2013-09-09 Template for requesting IRMA French radar display”

2.5 Upgrade of IRMA2000 systems

- No upgrade will be provided on these systems, as within following 5 years, French West Indies ATM will be replaced (surveillance systems, flight plan processing systems)
- This replacement is part of a French program called Overseas Modernization Plan. In this plan, Cayenne (French Guyana) is the first site to be installed, with an integrated system providing surveillance with Radar, ADS-B, ADS-C, safety nets, CPDLC, electronic stripping, for tower, approach, and oceanic control

3. Suggested actions

3.1 The Meeting is suggested to:

- a) confirm the States for the Radar Display Installation as commented in paragraph 2.1;
- b) take note of the radar display installation activities as detailed in section 2.3 and 2.4; and
- c) suggest any other action as deemed necessary

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