E/CAR/CATG/6 — WP/04
16/08/22

Sixth Eastern Caribbean Civil Aviation Technical Group (E/CAR/CATG/6) Meeting
Online, 17 to 19 August 2022

Agenda Item 3:   **ECAR States - Air Navigation Implementation matters**
3.4   Dashboard initiative for ECAR States

**DASHBOARD OF AIR NAVIGATION SERVICES AND SUPPORT FOR THE DEVELOPMENT
OF THE ELECTRONIC AIR NAVIGATION PLAN (E-ANP)**

(Presented by the Secretariat)

EXECUTIVE SUMMARY
During this year, the ICAO NACC and SAM Regional Offices have been working on updating the Electronic Air Navigation Plan (e-ANP), Volume III, as well as updating the information of the e-ANP, volumes II and I. Likewise, work is being done on the ICAO analysis platform for the North American and Caribbean (NAM/CAR) regions, which is still under construction.

Action:	Suggested actions are presented in Section 3.
Strategic Objectives:	• Safety • Air Navigation Capacity and Efficiency
References:	• Nineteenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/19). Online, 27 – 29 October 2021. https://bit.ly/3HZIiaF

1.   Introduction

1.1   The ICAO North American, Central American and Caribbean (NACC) Regional Office is accredited to 22 Contracting States and 19 Territories and covers 29 NAM Flight Information Regions (FIRs), 15 FIRs and 15 CARs. The ICAO NACC Regional Office promotes the implementation of ICAO Standards and Recommended Practices (SARPs) by providing assistance to States and conducting oversight activities to validate the effective application of ICAO international standards.

1.2   The Dashboards of the ICAO NACC Regional Office are intended to inform, monitor, and follow up on the implementation of different aviation matters: Safety, Aviation Security, Facilitation, Air Transport, Air Navigation, and Environmental Protection.

1.3   These Dashboards are intended to serve the States (DG and Technical Team) and the Regional Implementation Groups to support their monitoring of implementation progress and serve for the Annual Regional Safety and Air Navigation Reports and others.

1.4   The Dashboards are being implemented under the Platform of the Integrated Safety Trend Analysis and Reporting System (iSTARS) 4.0, for which States must request access through username and password through the ICAO Secure Portal.

1.5   The Dashboard will allow the implementation of a measurement system that allows the State to visualize the current degree of implementation, the expectations, and/or the implementation goals and thus support these tasks that require a continuous collection of data and measurements to establish a data report that is representative.

1.6   Implementation status is displayed through dynamic, interactive charts that are available on the Dashboard. The system will generate ad-hoc reports illustrating the data collected in the Dashboard and each State will have access to the ICAO Secure Portal for use and reporting.

1.7   In this sense, it is necessary to constantly update the ANS implementation information that is carried through the different Implementation Groups, part of the NACC/WG, constantly so that the latest information is always reflected in the system.

1.8   Similarly, the e-ANP development project in its third volume, led by both NACC and SAM Regional Offices requires the work of updating the implementation information of the States.

2.   Analysis

2.1   It is necessary that the different ECAR/CATG Task Forces provide the information to measure the Air Navigation Implementation in CAR Region. Data will support the information in the e-ANP Volume I and II.

2.2   Updating this information is required in the short term and a living regional mechanism should be established to update the information whenever it is required.

2.3   Information about different Air Navigation Implementation areas is needed such as AIM, SURV, AIDC/NAM/ICD, ATFM, MET and others. Examples are provided in the Appendix to this Working Paper.

3.   Suggested actions

3.1   The Meeting is invited to:

a)   complete the information required for a procedure to obtain the necessary data to measure Air Navigation Implementation in ECAR States;

b) integrate, under Task Force activities, obtain and share information according to their areas responsibilities; and

c) any other action that applies.

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APPENDIX

AFTM

State Progress | Region Progress (target)

Country	Progress
Canada	100.00%
Dominican Republic	100.00%
Mexico	100.00%
United States	100.00%
Antigua and Barbuda	
Bahamas	
Barbados	
Belize	
Costa Rica	
Cuba	
Dominica	
El Salvador	
Grenada	
Guatemala	
Haiti	
Honduras	
Jamaica	
Nicaragua	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	

AIM QS

State Progress | Region Progress (target)

Country	Progress
Antigua and Barbuda	100.00%
Bahamas	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Guatemala	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Lucia	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Barbados	
Dominica	
Grenada	
Haiti	
Honduras	
Saint Kitts and Nevis	
Saint Vincent and the Grenadines	

MET QMS Implemented

State Progress | Region progress (target)

Country	Progress
Belize	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Antigua and Barbuda	
Bahamas	
Barbados	
Canada	
Costa Rica	
Dominica	
Grenada	
Guatemala	
Haiti	
Honduras	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	

MET QMS Certified

State Progress | Region progress (target)

Country	Progress
Cuba	100.00%
Mexico	100.00%
Nicaragua	100.00%
Antigua and Barbuda	
Bahamas	
Barbados	
Belize	
Canada	
Costa Rica	
Dominica	
Dominican Republic	
El Salvador	
Grenada	
Guatemala	
Haiti	
Honduras	
Jamaica	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	
United States	

eAIP Action Plan

● State Progress ▍ Region progress (target)

State	Progress
Antigua and Barbuda	100.00%
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Grenada	100.00%
Guatemala	100.00%
Honduras	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	100.00%
Saint Lucia	100.00%
Saint Vincent and the Grenadines	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Dominica	
Haiti	

0.00% 50.00% 100.00%

eAIP Operational

● State Progress ▍ Region progress (target)

State	Progress
Antigua and Barbuda	100.00%
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Grenada	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	100.00%
Saint Lucia	100.00%
Saint Vincent and the Grenadines	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Dominica	
Guatemala	
Haiti	
Honduras	

0.00% 50.00% 100.00%

eAIP Software

● State Progress ▍ Region progress (target)

State	Progress
Antigua and Barbuda	100.00%
Bahamas	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Grenada	100.00%
Guatemala	100.00%
Honduras	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	100.00%
Saint Lucia	100.00%
Saint Vincent and the Grenadines	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Barbados	
Dominica	
Haiti	

0.00% 50.00% 100.00%

IWXXM

● State Progress ▍ Region progress (target)

State	Progress
Cuba	100.00%
United States	100.00%
Antigua and Barbuda	
Bahamas	
Barbados	
Belize	
Canada	
Costa Rica	
Dominica	
Dominican Republic	
El Salvador	
Grenada	
Guatemala	
Haiti	
Honduras	
Jamaica	
Mexico	
Nicaragua	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	

0.00% 50.00% 100.00%

AMHS Planned and Implemented

NACC Planned
65

NACC Implemented
33.00

- Planned
- Implemented

Country	Planned	Implemented
Antigua and Barbuda	0	1
Bahamas		1
Barbados		1
Belize		1
Canada		1
Costa Rica		1
Cuba		1
Dominica	0	1
Dominican Republic		1
El Salvador		1
Grenada	0	1
Guatemala		1
Haiti	0	1
Honduras		1
Jamaica		1
Mexico		1
Nicaragua		1
Saint Kitts and Nevis	0	1
Saint Lucia	0	1
Saint Vincent and th...	0	1
Trinidad and Tobago		1
United States		1

AMHS Progress

- State
- Region (target)

Country	Progress
Antigua and Barbuda	
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominica	
Dominican Republic	100.00%
El Salvador	100.00%
Grenada	
Guatemala	100.00%
Haiti	
Honduras	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	100.00%
United States	100.00%

AIDC Planned and Implement

NACC Planned
84

NACC Implemented
27.57

- Planned
- Implemented

Country	Planned	Implemented
Antigua and Barbuda	1	0
Bahamas	1	0
Barbados	1	0
Belize	4	0
Canada	11	
Costa Rica	3	0
Cuba	8	2
Dominica	1	0
Dominican Republic	3	1
El Salvador	4	1
Grenada	1	0
Guatemala	4	1
Haiti	0	
Honduras	5	0
Jamaica	1	0
Mexico	3	1
Nicaragua	4	1
Saint Kitts and Nevis	1	0
Saint Lucia	1	0
Saint Vincent and th...	1	0
Trinidad and Tobago	5	0
United States	17	11

AIDC Progress

- State
- Region (target)

Country	Progress
Antigua and Barbuda	
Bahamas	
Barbados	
Belize	
Canada	90.91%
Costa Rica	
Cuba	25.00%
Dominica	
Dominican Republic	22.33%
El Salvador	25.00%
Grenada	
Guatemala	25.00%
Haiti	
Honduras	
Jamaica	
Mexico	20.00%
Nicaragua	25.00%
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	
United States	66.47%

NACC Applicable

1116

NACC Implemented

963

APV Applicable and Implemen ▽ ⊡ ⋯

● Applicable ● Implemented

Country	Value
Antigua and Barbuda	2
Bahamas	22
Barbados	2
Belize	2
Canada	67
Costa Rica	8
Cuba	15
Dominica	2
Dominican Republic	18
El Salvador	3
Grenada	2
Guatemala	4
Haiti	4
Honduras	5
Jamaica	4
Mexico	126 / 51
Nicaragua	2
Saint Kitts and Nevis	2
Saint Lucia	3
Saint Vincent and th...	2
Trinidad and Tobago	2
United States	819

APV Progress

● State ❘ Region (target)

Country	Progress
Antigua and Barbuda	
Bahamas	59.09%
Barbados	100.00%
Belize	100.00%
Canada	97.01%
Costa Rica	12.50%
Cuba	100.00%
Dominica	
Dominican Republic	
El Salvador	
Grenada	100.00%
Guatemala	25.00%
Haiti	100.00%
Honduras	40.00%
Jamaica	100.00%
Mexico	40.48%
Nicaragua	100.00%
Saint Kitts and Nevis	
Saint Lucia	100.00%
Saint Vincent and the Grenadines	
Trinidad and Tobago	100.00%
United States	96.95%

NACC Applicable

1116

NACC Implemented

348

PBN SID Applicable and Implem ▽ ⊡ ⋯

● Applicable ● Implemented

Country	Value
Antigua and Barbuda	2
Bahamas	22
Barbados	2
Belize	2
Canada	67
Costa Rica	8
Cuba	15
Dominica	2
Dominican Republic	18
El Salvador	3
Grenada	2
Guatemala	4
Haiti	4
Honduras	5
Jamaica	4
Mexico	126 / 53
Nicaragua	2
Saint Kitts and Nevis	2
Saint Lucia	3
Saint Vincent and th...	2
Trinidad and Tobago	2
United States	819 / 224

PBN SID Progress

● State ❘ Region (target)

Country	Progress
Antigua and Barbuda	
Bahamas	45.45%
Barbados	
Belize	
Canada	35.82%
Costa Rica	25.00%
Cuba	100.00%
Dominica	
Dominican Republic	66.67%
El Salvador	
Grenada	
Guatemala	
Haiti	75.00%
Honduras	60.00%
Jamaica	50.00%
Mexico	42.06%
Nicaragua	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	
United States	27.35%

eTOD Area 1

State | Region (target)

Antigua and Barbuda	100.00%
Canada	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Bahamas	
Barbados	
Belize	
Costa Rica	
Dominica	
Grenada	
Guatemala	
Haiti	
Honduras	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	

0.00%   50.00%   100.00%

eTOD Area 4

State | Region (target)

Canada	100.00%
Mexico	100.00%
United States	100.00%
Antigua and Barbuda	
Bahamas	
Barbados	
Belize	
Costa Rica	
Cuba	
Dominica	
Dominican Republic	
El Salvador	
Grenada	
Guatemala	
Haiti	
Honduras	
Jamaica	
Nicaragua	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	

0.00%   50.00%   100.00%

eTOD Area 2A

State | Region (target)

Antigua and Barbuda	100.00%
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Cuba	100.00%
El Salvador	100.00%
Guatemala	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Costa Rica	
Dominica	
Dominican Republic	
Grenada	
Haiti	
Honduras	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	

0.00%   50.00%   100.00%

eTOD Limiting Surface

State | Region (target)

Antigua and Barbuda	100.00%
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Guatemala	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	100.00%
Saint Lucia	100.00%
Saint Vincent and the Grenadines	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Dominica	
Grenada	
Haiti	
Honduras	

0.00%   50.00%   100.00%

eTOD Trajectory 1.2%

State | Region (target)

Antigua and Barbuda	100.00%
Bahamas	100.00%
Barbados	100.00%
Belize	100.00%
Canada	100.00%
Costa Rica	100.00%
Cuba	100.00%
Dominica	100.00%
Dominican Republic	100.00%
El Salvador	100.00%
Guatemala	100.00%
Jamaica	100.00%
Mexico	100.00%
Nicaragua	100.00%
Saint Kitts and Nevis	100.00%
Saint Lucia	100.00%
Saint Vincent and the Grenadines	100.00%
Trinidad and Tobago	100.00%
United States	100.00%
Grenada	
Haiti	
Honduras	

0.00%   50.00%   100.00%

ACDM Progress

State | Region (target)

Canada	45.00%
United States	45.00%
Antigua and Barbuda	25.00%
Bahamas	25.00%
Costa Rica	25.00%
Cuba	25.00%
Dominican Republic	25.00%
El Salvador	25.00%
Guatemala	25.00%
Honduras	25.00%
Jamaica	25.00%
Mexico	25.00%
Nicaragua	25.00%
Trinidad and Tobago	25.00%
Barbados	
Belize	
Dominica	
Grenada	
Haiti	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	

0.00%   20.00%   40.00%

ACDM Applicability

United States	Canada	Mexico	Dominican Republic	Antigua and Barbuda	Bahamas	Costa Rica	Cuba	El Salvador	Guatemala	Honduras	Jamaica	Nicaragua	Trinidad and Tobago	Barbados	Belize	Do
70	15	3	2	1	1	1	1	1	1	1	1	1	1	0	0	

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