



# ICAO

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

WORKING PAPER

NACC/WG/6 — WP/06  
23/08/21

## Sixth North American, Central American and Caribbean Working Group Meeting (NACC/WG/6)

On-line, 25 to 27 August 2021, 09:00 to 13:00 (UTC-5)

- Agenda Item 2: Follow-up on Valid Conclusions and Previous Agreements of the NACC/WG, GREPECAS, NACC/DCA and Other Related Meetings**
- 2.3 Follow-up to GREPECAS improvements and AN Projects (AIM, ATM, AGA, CNS, MET and SAR)**

### STATUS OF AIM TASK FORCE ACTION PLAN

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This Working Paper refers to activities in the area of Aeronautical Information Management (AIM).	
<b>Action:</b>	Suggested actions are presented in Section 4.
<b>Strategic Objectives:</b>	<ul style="list-style-type: none"><li>• Air Navigation Capacity and Efficiency</li></ul>
<b>References:</b>	<ul style="list-style-type: none"><li>• Annex 15 – Aeronautical Information Services</li><li>• ICAO Doc 10066 – PANS AIM</li><li>• ICAO Doc 8126 – AIS Manual (draft)</li><li>• Fourth North American, Central American and Caribbean Working Group (NACC/WG) Aeronautical Information Management Implementation Task Force Meeting (AIM/TF/4) Report, Online, 11 May 2021</li></ul>

## 1. Introduction

1.1 The Aeronautical Information Management (AIM) has the initial objective of completing the implementation of the Roadmap for the transition from AIS to AIM, as well as the application of Amendment 40 to ICAO Annex 15, and the following ( 41 and 42) that provide the reference framework for this management.

1.2 Likewise, ICAO Doc 10066 - *PANS-AIM*, indicates the methodology and procedure that must be applied to achieve the implementation of AIM and manage the information in the electronic environment. On the other hand, ICAO has made available to the Aeronautical Information Services (AIS)/AIM community, in a version with disclaimer, the draft of the new version of Doc 8126 - AIS Manual, in four Sections, in order to reinforce the AIM processes and procedures, aligned with the 6<sup>th</sup> Global Air Navigation Plan (GANP) Edition.

1.3 The majority of the NACC States have provided data and information on the progress in the three Phases of the ICAO Roadmap, in each related step (21 steps), as well as the current and total implementation status of said steps for the transition to AIM.

## 2. Analysis

2.1 In accordance with the AIM Collaborative Plan for the CAR Region, the 21 steps of the ICAO Roadmap for the transition to AIM, as well as the requirements of Annex 15 and the PANS – AIM, will be represented on a monitoring website (in development), through tables and graphs that express progress by each State, information that is oriented to decision-making both for the States themselves and for ICAO.

2.2 In this sense, an Excel file was created by the Rapporteur of the AIM Task Force (TF) and with the active participation of all States, in updating their information on the status of the transition from AIS to AIM, so that represent a reflection of each State (see **Appendix**). All the States of the Region must present the required updated information in a timely and accurate manner to the TF Rapporteur every year or whenever a step of the three Phases has been implemented. In the Appendix they appear as 0% when they have not sent their information and data. Below are the contributions received from the States and those who are missing:

States / Estados	Data / Datos	States / Estados	Data / Datos
1. Antigua and Barbuda	✓	12. Guatemala	✗
2. Bahamas	✓	13. Haiti	✗
3. Barbados	✓	14. Honduras	✗
4. Belize	✗	15. Jamaica	✓
5. Canada	✓	16. México	✓
6. Costa Rica	✓	17. Nicaragua	✗
7. Cuba	✓	18. St. Kitts and Nevis	✗
8. Dominica	✗	19. St. Lucia	✗
9. Dominican Republic	✓	20. St. Vincent and the Grenadines	✗
10. El Salvador	✗	21. Trinidad and Tobago	✓
11. Grenada	✗	22. United States	✓

2.3 Since 2010, ICAO has pending to release and publish the guides that complement some of the most important steps for the Transition to AIM, such as:

- Quality management, incorporating the existing draft Guidance Manual Doc 9839 (including P-17 and P-18);
- AIM Instruction, incorporating the existing draft Guidance Manual Doc 9991 (including P-16);
- Aeronautical information exchange model (including P-08, P-09, P10 and P-19)
- Electronic AIP, (including P-11, which incorporates P-15 and P-20)
- SWIM Manual, Doc 10039 - draft, not edited
- Doc 9881 eTOD Manual was cancelled

2.4 As soon as the **AIM monitoring website** is activated, States are expected to actively participate and upload the information through the dashboard, according to the dates established by the ICAO NACC AIM TF. This site will contain guides to support the implementation of the 21 steps to the transition to AIM. The CAR **AIM Tracking Website**, Beta version, is expected to be presented at the GREPECAS/19 Meeting.

2.5 With a complete view of the total advancement of the NAM/CAR Regions for the transition to AIM, the implementation towards the System-wide Information Management (SWIM) will be clearer the implementation deadlines.

2.6 Getting from AIS to AIM: The required trip to SWIM. States should use AIM to exchange information and digital data with other parties involved through SWIM, in order to make it possible to use that information in real time for a more efficient and secure management of air traffic.

2.7 Standardization and homogenization is necessary for the exchange of information and data to be useful at all levels, local, regional and global. However, quality and accuracy must also be guaranteed from the source for all data provided. Given the large number of data originators and end users, ensuring quality throughout the data chain remains a challenge.

2.8 Standardization in AIM focuses primarily on ensuring data quality through the Quality Management System (QMS). This is key for the exchange of information and data in support of Air Traffic Management (ATM), using the Aeronautical Information Exchange Model (AIXM) through SWIM.

**3. Conclusion**

3.1 The advancement of the implementation of the Digital Data Sets, the Data Catalog and the Standard Model of Information Exchange should be accelerated to achieve the information management in an electronic environment and the availability of the Aeronautical information Publication (AIP) in electronic format (e-AIP). This procedure is essential to build the SWIM.

3.2 The Secretariat urges the States to complete Phase 1 of the Roadmap, specifically the implementation and certification of the QMS/AIM, for those that have not yet completed it, and to establish a procedure to maintain the certifications of the implemented system.

3.3 Considering that the delay in the implementation of phase 2 of the AIS Roadmap to AIM directly affects the implementation of SWIM, the meeting could consider issuing the following Draft Conclusion:

<b>DRAFT CONCLUSIÓN</b>		<b>IMPLEMENTATION OF THE DIGITAL DATA SETS (DDS), OF THE e-AIP DATA AND AERONAUTICAL INFORMATION EXCHANGE MODEL (PANS AIM)</b>	
<b>NACC/WG/06/XX</b>			
<b>That:</b> The States, accelerate the implementation of the Digital Data Sets, the Data Catalog (PANS AIM), and the standard Information Exchange Models (AIXM-Metadata), in all their domains, in order to make possible the management of the information in a SWIM environment.	<b>Expected impact:</b> <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical / Operational		
<b>Why:</b> To comply with the requirements of ICAO Annex 15, PANS AIM and Doc. 8126, and develop the basis for SWIM.			
<b>When:</b> Complete the implementation of the AIM Transition by 2025 at the latest.	<b>Status:</b> <input checked="" type="checkbox"/> Válida / <input type="checkbox"/> Invalidada / <input type="checkbox"/> Finalizada		
<b>Who</b> <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO <input type="checkbox"/> Othres:	States		

**4. Suggested Action**

4.1 The Meeting is invited to:

- a) take note of the content of this working paper and its Appendix;
- b) approve the draft Conclusion for approval by the NACC/DCA/10 Meeting, as proposed in Section 3.3; and
- c) consider other actions deemed necessary.

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APPENDIX / APÉNDICE

AIM TRANSITION STATUS / ESTADO DE TRANSICIÓN DE AIM

Phases ↓	States →	Antigua and Barbuda	Bahamas	Barbados	Belize	Canada	Costa Rica	Cuba	Dominican Republic	Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	El Salvador	Grenada	Guatemala	Haiti	Honduras	Jamaica	México	Nicaragua	St Kitts and Nevis	St Lucia	St Vincent and the Grenadines	Trinidad and Tobago	United States	COCESNA
Unique identifiers		NO INPUT	50%	0%		25%	99%	100%	NO INPUT	100%						50%	100%					100%	25%	
Aeronautical information conceptual model		NO INPUT	0%	0%		99%	100%	100%	NO INPUT	100%						75%	100%					100%	25%	100%
eAIP		NO INPUT	0%	75%		75%	99%	99%	NO INPUT	100%						50%	75%					75%	50%	
Terrain A-1		0%	50%	50%		100%	100%	100%	NO INPUT	100%						99%	0%					100%	100%	
Obstacle A-1		0%	50%	50%		100%	99%	100%	NO INPUT	100%						99%	0%					50%	100%	
Terrain A-4		0%	50%	50%		100%	N/A	NO INPUT	NO INPUT	100%						N/A	0%					NO INPUT	100%	
Obstacle A-4		0%	50%	50%		100%	N/A	NO INPUT	NO INPUT	100%						N/A	0%					NO INPUT	50%	
Terrain A-2[1]		0%	50%	50%		75%	100%	100%	NO INPUT	100%						99%	0%					100%	100%	
Obstacle A-2[2]		0%	50%	50%		75%	50%	100%	NO INPUT	100%						99%	0%					50%	50%	
Terrain A-3		0%	50%	50%		75%	99%	100%	NO INPUT	100%						99%	0%					100%	100%	
Obstacle A-3		0%	50%	50%		75%	50%	100%	NO INPUT	100%						99%	0%					50%	50%	
Aerodrome Mapping		0%	0%	25%		0%	25%	25%	NO INPUT	75%						99%	50%					25%	100%	
<b>TOTAL Status</b>		12%	37%	38%	0%	78%	75%	82%	0%	98%	0%	0%	0%	0%	0%	68%	37%	0%	0%	0%	0%	63%	82%	0%
		INITIAL	DEVL	DEVL	NO START	FINAL	ADV	FINAL	INITIAL	FINAL	NO START	NO START	NO START	NO START	NO START	ADV	DEVL	NO START	NO START	NO START	NO START	ADV	FINAL	NO START
<b>Phase 3</b>																								
Aeronautical data exchange		NO INPUT	0%	0%		50%	100%	25%	100%	75%						99%	50%					50%	100%	
Communication networks		NO INPUT	50%	0%		50%	SCHED	75%	100%	100%						99%	0%					99%	100%	
Aeronautical information briefing		NO INPUT	50%	50%		100%	SCHED	100%	100%	99%						50%	0%					NO INPUT	100%	
Training		75%	25%	75%		50%	SCHED	100%	100%	100%						99%	50%					25%	100%	
Agreement with data originators		50%	50%	50%		50%	SCHED	100%	100%	100%						50%	0%					50%	100%	
Interoperability with meteorological products		NO INPUT	0%	25%		0%	N/A	0%	100%	99%						50%	0%					0%	25%	
Electronic aeronautical charts		0%	0%	25%		0%	0%	0%	25%	75%						99%	0%					50%	100%	
Digital NOTAM		NO INPUT	0%	0%		0%	0%	0%	25%	75%						0%	0%					25%	100%	
<b>TOTAL Status</b>		16%	22%	28%	0%	38%	0%	50%	8%	90%	0%	0%	0%	0%	0%	68%	13%	0%	0%	0%	0%	37%	9%	0%
		INITIAL	INITIAL	DEVL	NO START	DEVL	INITIAL	DEVL	FINAL	FINAL	NO START	NO START	NO START	NO START	NO START	ADV	INITIAL	NO START	NO START	NO START	NO START	DEVL	FINAL	NO START
<b>TOTAL Status Complete Transition per State.</b>		39%	42%	51%	0%	66%	29%	77%	65%	96%	0%	0%	0%	0%	0%	72%	50%	0%	0%	0%	0%	59%	85%	0%
<i>There are a total of 22 member States!</i>		DEVL	DEVL	ADV	NO START/NO INFO PROVIDED	ADV	DEVL	FINAL	ADV	FINAL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	ADV	DEVL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	ADV	FINAL	NO START/NO INFO PROVIDED
<p style="color: red; font-size: 2em; font-weight: bold;">Updated:</p> <p style="color: red; font-size: 2em; font-weight: bold;">11MAY2021</p>		1	Not Started (leave empty)																			0%		
		2	Initial Stage																			1 - 25 %		
		3	Developing Stage																			26 - 50 %		
		4	Advanced Stage																			51 - 75 %		
		5	Finalizing Stage																			76 - 99 %		
		6	Fully implemented																			100%		
		7	Implemented through a third party																			100%		
		8	Scheduled to be completed and/or fully implemented by this date / period																			Provide more information		
		9	Will not implement this step (Fill all years grey)																			Provide reason		

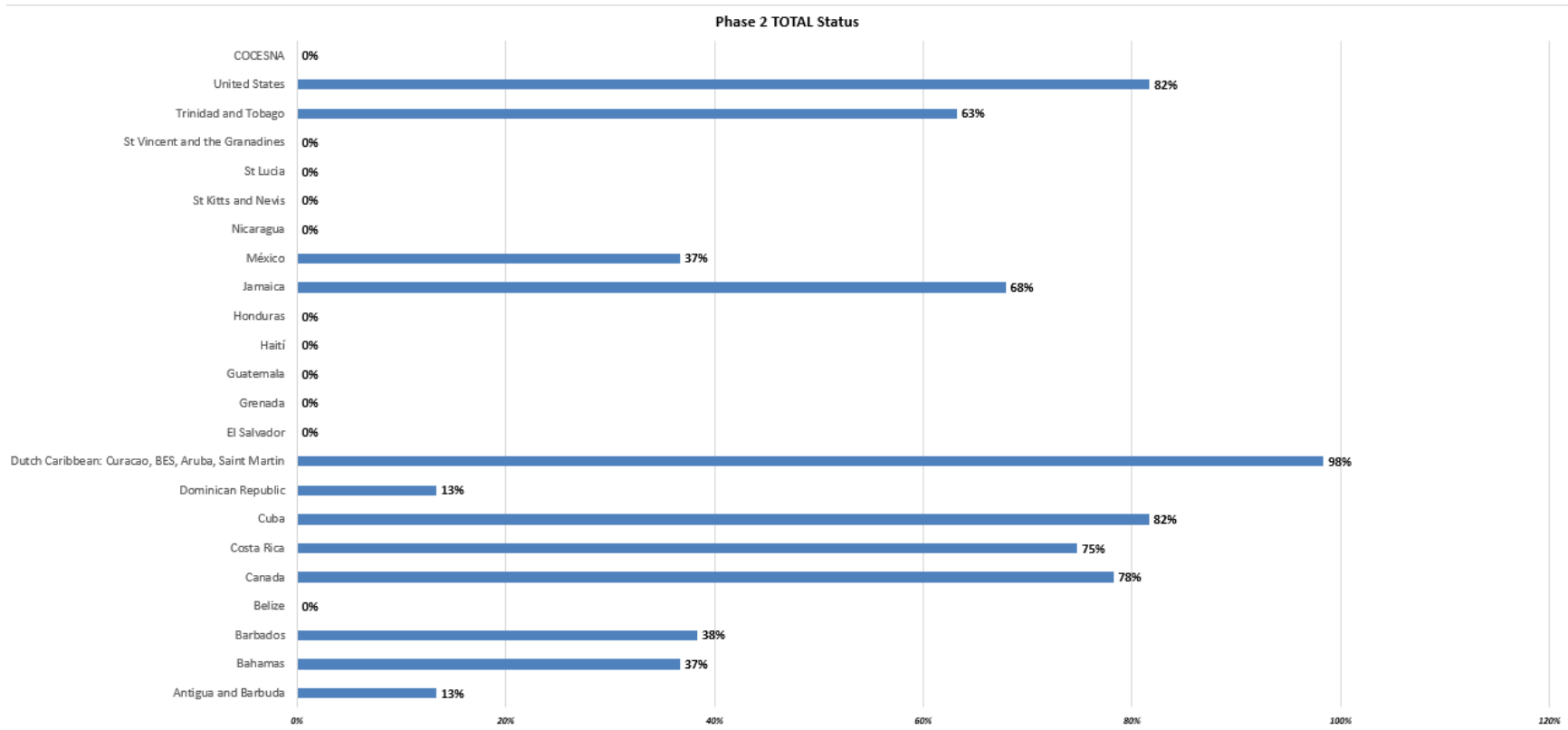


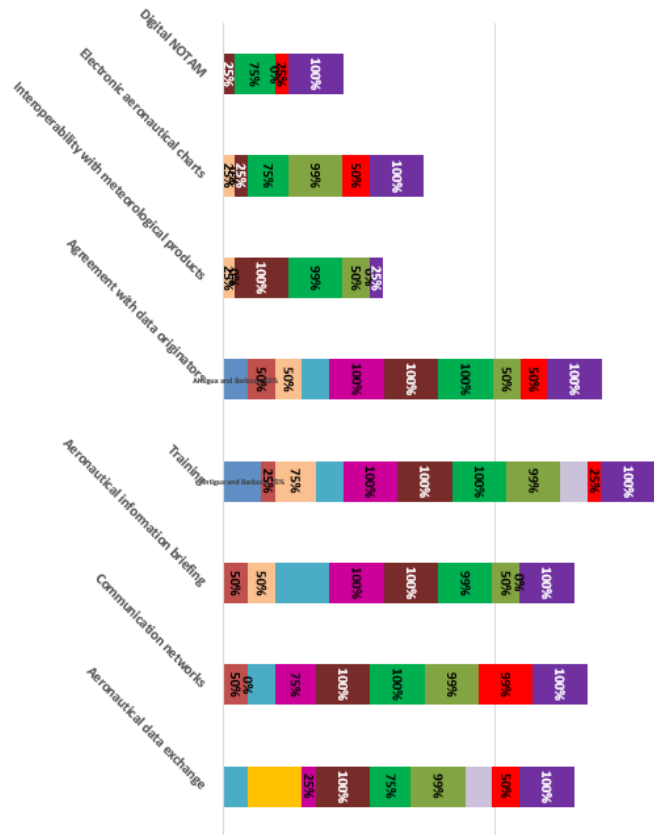
Phase 1 TOTAL Status











Phase 3, Steps Status Completion per State

- Antigua and Barbuda
- Bahamas
- Barbados
- Belize
- Canada
- Costa Rica
- Cuba
- Dominican Republic
- Dutch Caribbean: Curacao, BES, Aruba, Saint Martin
- El Salvador
- Grenada
- Guatemala
- Haiti
- Honduras
- Jamaica
- México
- Nicaragua
- St Kitts and Nevis
- St Lucia
- St Vincent and the Granadines
- Trinidad and Tobago
- United States
- COCESNA

