



**Twentieth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/20)**  
 Salvador, Brazil, 16 – 18 November 2022

**Agenda Item 2: Global and Regional Developments**  
 2.3 Progress Report on Programs and Projects

**AIS/AIM PROGRAM REVIEW**

(Presented by the Secretariat)

<b>EXECUTIVE SUMMARY</b>	
This Working Paper refers to the activities in the area of Aeronautical Information Management (AIM/AIS), with respect to the CAR/SAM Regions.	
<b>Action:</b>	Suggested actions are presented in Section 4.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"> <li>• Air Navigation Capacity and Efficiency</li> <li>• Environmental Protection</li> </ul>
<i>References:</i>	<ul style="list-style-type: none"> <li>• Global Campaign for NOTAM Improvements</li> <li>• Doc. 8126 – AIS Manual</li> <li>• Nineteenth Meeting of GREPECAS (GREPECAS/19)</li> <li>• SAM/AIM/14 follow-up meeting</li> <li>• AIM TF 04 Meeting</li> <li>• e-PPRC/04 meeting</li> <li>• AIS Documentation in Draft</li> </ul>

**1. Introduction**

1.1 ICAO has worked on updating the AIS documentation in order to make it available to the aeronautical community and support the transition from AIS to AIM.

1.2 The Secretariat has followed up on the NOTAM Global Campaign, as well as Conclusion 19/3 of GREPECAS 19.

1.3 At the regional level, the Secretariat has followed up on the recommendations and conclusions of meetings at the regional level.

1.4 Likewise, the Secretariat has delivered or plans to deliver courses and workshops to generate and strengthen capacities in the AIS/AIM area.

1.5 Additionally, the Proposal for the Seventh Edition of the Global Air Navigation Plan includes a modification of the basic constituent elements (BBB) related to AIS/AIM.

## 2. Análisis

2.1 ICAO is in the process of reviewing and updating the documents related to AIS, in order to support the Transition from AIS to AIM. In relation to this task, the following has been communicated:

- a) Document 8126 – AIS Manual: Completed Parts I, II, III and IV; Available only in English;
- b) Doc 9839 – AIS Quality Management System Manual; Under review;
- c) Doc. 9991 – AIS Personnel Training Manual; Draft version under review

2.2 As a follow-up to the NOTAM Global Campaign, the NAM/CAR/SAM Workshop on NOTAM has been held. This event was delivered in a hybrid format, from September 7 to 9, and was attended by 21 Delegates in presence format, and 100 delegates in virtual format. ICAO Headquarters (Dr. Alexander Pufahl), EAD Group and M-AIS participated as speakers.

2.3 The meeting should also note that ICAO, through the GAT, has developed courses:

- a) Aeronautical Information Quality Management (AIQM):  
<https://igat.icao.int/ated/TrainingCatalogue/Course/5639> or [5582](https://igat.icao.int/ated/TrainingCatalogue/Course/5582)
- b) Data-Centric Aeronautical Information System Operations (AIS OPS):  
<https://igat.icao.int/ated/TrainingCatalogue/Course/5640> or [5605](https://igat.icao.int/ated/TrainingCatalogue/Course/5605)
- c) AIM – OPS NOTAM WORKSHOP: Creating a high quality NOTAM

2.4 The Seventh Edition of the GANP includes modification in the BBB related to AIS/AIM. Additionally, the mapping, which includes this edition of the GANP, between the BBBs and the PQs of the USOAP Program should be considered. In this regard, this mapping would facilitate the monitoring of the implementation status of the BBBs applicable to AIM in the States.

2.5 The Secretariat has monitored, at the regional level, all issues related to AIS and the Transition from AIS to AIM, the results of which are shown below.

### CAR Region

2.6 With the objective of completing the implementation of the ICAO Roadmap for the transition from AIS to AIM, as well as the application of Amendment 41 to ICAO Annex 15 and the following Amendment (42), the reference framework will indicate the methodology and procedures that must be applied to implement the AIM and manage the information in the electronic and digital environment of the Data Sets, such as the new version of the Aeronautical Information Services Manual cited in paragraph 2.1, aiming to reinforce AIM processes and procedures, aligned with the Global Air Navigation Plan (GANP) in its latest edition.

2.7 Most of the States of the NACC Region have provided information on the progress regarding the three Phases of the Roadmap, in each of the 21 steps, as well as the current implementation status of said steps for the transition to AIM, being compiled in Excel tables for registration and analysis and evaluation of the assistance requirements to the States, by the Regional Office.

2.8 Additionally, the AIM Collaborative Plan for the CAR Region provides guidelines to States for the implementation of the 21 steps of the Roadmap, as well as the related requirements from Annex 15 and the PANS – AIM, which will be represented in the monitoring website (under development), through tables and graphs that express the progress of each State.

2.9 States that have not yet provided their information are encouraged to do so as soon as possible, since the active participation of all States, which may or may not be reflected in all States of the Region, through the AIM Website which will be available soon.

2.10 In addition to what was mentioned in paragraph 2.1, ICAO maintains its commitment to publish the guides that complement some of the most important Steps for the transition to AIM:

Manual	Availability
Doc. 9839 (including steps P-01, P-02, P-17 y P-18)	draft version
Doc. 9991 (including step P-16)	
Aeronautical Information Exchange Model (including steps P-08, P-09, P10 y P-19)	Pending by IM Panel
electronic AIP, (including steps P-11, and P-15 y P-20)	
SWIM Manual, Doc. 10039 - draft, not edited	draft version
Doc. 9881 Manual eTOD - Cancelled	Pending by IM Panel
Waiting for a new TOD Manual (including steps P-13 y P-14)	

2.11 As soon as the **CAR AIM Tracking website** is activated, States are expected to actively participate and share their information to the AIM TF and the ICAO Secretariat. This site will also contain guides to support the transition to AIM. It is estimated that a preview of the CAR AIM Tracking Website will be presented during this Meeting.

2.12 The urgent demand for the implementation of Digital Data Sets, the Data Catalog and the Aeronautical Information Exchange Standard Model (AIXM) should be accelerated to achieve information management in an electronic format that is essential for exchanging data and building an environment for SWIM.

2.13 On the other hand, the Secretariat once again urges the States to complete the Phases of the Roadmap, specifically the implementation and certification of the QMS/AIM, for those that have not yet completed it. Also, to support and actively participate in the revised **AIM Collaborative Plan for the CAR Region (Appendix E)**.

2.14 Additionally, the Data Sets and Electronic Aeronautical Charts Workshop was held with the following topics:

- Digital data set and Aeronautical Information Exchange Model (AIXM)
- Impact of digitization on AIM
- Implementing AIM 2.0 and beyond
- Building System Wide Information Management (SWIM) on a solid foundation of AIM
- Introduction to electronic charts (Phase 3 Information Management – Step 20)
- Aeronautical Cartography (Annex 4)
- Geographic Information Systems (GIS) and AD Databases, Obstacles/Terrain Points of Navigation (Nav)
- Importance of Doc 8168 - PANS OPS

2.15 Considering that the delay in the implementation of phase 2 of the Roadmap from AIS to AIM has a direct impact on the implementation of SWIM, the Secretariat considers keeping the Conclusion valid: NACC WG 06/06 “IMPLEMENTATION OF DIGITAL DATA SETS ( Digital Data Sets - DDS), OF THE e-AIP AERONAUTICAL DATA AND INFORMATION EXCHANGE MODEL (PANS AIM)” from the Working Group Meeting for the NACC Region (August 30 to September 1, 2022), with an estimated date for the implementation of the Transition to AIM no later than the end of 2025, for the CAR Region.

### SAM Region

2.16 In the SAM Region, a follow-up teleconference of the SAM/AIM/14 Recommendations has been held. Follow-up has been given on the following topics:

- a) Implementation of SNOWTAM
- b) Implementation of the QMS/AIS-AIM
- c) Planning for the implementation of Phase 2 of the Transition Roadmap from AIS to AIM (Elements of Module B1-DAIM)
- d) Follow-up to the NOTAM Global Campaign in the SAM Region

2.17 In **Appendices A, B, C, and D** you can find the follow-up tables for each of the topics mentioned, indicating that the progress presented is from the e-CRPP/4.

2.18 Additionally, in line with the creation of capacities for the Transition from AIS to AIM, the SAM Region plans to deliver the following courses:

- a) Course on Aeronautical Information Exchange Standard Model
- b) Course in electronic AIP.
- c) Coordination of ATS/AIS/MET Services: Coordination and Contingency Plans

## **3. Conclusions**

3.1 The Secretariat accompanies the implementation of Phase 2 of the AIS Roadmap in order to specify the Aeronautical Information Management in an electronic environment and prepare the enablers, from the AIM area, for the System-wide information management (SWIM).

3.2 The Secretariat, once again, would like to draw the Meeting's attention to the importance of observing the deadline of GREPECAS Conclusion 19/03 (2024) in order not to delay the implementation of SWIM.

3.3 Additionally, the Meeting may consider and highlight the importance of betting on the creation of capacities to manage all aeronautical information in an electronic environment. Training is one of the fundamental pillars to implement all the steps of the Transition Roadmap from AIS to AIM, and thus finally implement SWIM.

**4. Suggested actions**

4.1 The Meeting is invited to:

- a) note the information contained in the Working Paper;
  - b) review the Appendices and, if necessary, update them;
  - c) urge States to complete the process of implementing the elements of B1-DAIM and thus complete Phase 2 of the Roadmap; and
  - d) consider other actions.
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