



**Agenda Item 3: Monitoring the implementation of the Quality Management System in AIM units (QMS/AIM) in the NAM/CAR/SAM regions.
Monitoring the implementation of WGS-84, adherence to the AIRAC cycle and compliance with ICAO SARPs Annex 4 and Annex 15**

MONITORING THE IMPLEMENTATION OF DIGITAL DATA SETS (DDS) IN THE NAM/CAR REGIONS

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This Working Paper presents the status of implementation of Digital Data Sets (DDS) in the NAM/CAR Region, based on information reported to the ICAO NACC Regional Office.	
Action:	As detailed in paragraph 4
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Every Flight is Safe and Secure• Aviation Delivers Seamless, Accessible, and Reliable Mobility for All• No Country Left Behind
<i>References:</i>	<ul style="list-style-type: none">• Annex 15 – Aeronautical Information Services• Annex 4 – Aeronautical Charts• Doc 8126 – AIS/AIM Manual• Global Air Navigation Plan (GANP) and AIM Basic Building Blocks (BBB)• Checklist for States' implementation of the AIS to AIM roadmap

1. Introduction

1.1 Digital Data Sets (DDS) represent a key component within Phase 2 (Digital) of the transition from Aeronautical Information Services (AIS) to Aeronautical Information Management (AIM), by enabling the structuring, exchange and management of aeronautical information based on high-quality, standardised and digitised data. This transition is essential to improve operational efficiency, interoperability and decision-making in the modern aeronautical environment.

1.2 In the NAM/CAR Region, DDS have become increasingly relevant in recent years, aligning with ICAO guidelines and regional implementation frameworks. Since the AIM regional meetings and the follow-up mechanisms in place, the importance of States advancing the implementation of these datasets has been reiterated as a fundamental requirement to enable advanced concepts such as System-wide Information Management (SWIM) and facilitate future capabilities such as Flight and Flow - Information for a Collaborative Environment (FF-ICE).

1.3 In addition, the Secretariat and regional bodies have continuously monitored the progress of the NAM/CAR States in adopting the DDS, promoting their development through technical meetings, study notes and coordination activities. This effort seeks to ensure a harmonized implementation in the region, thus strengthening aeronautical information management and supporting the evolution towards a more digital, integrated and collaborative operational environment.

2. Status of implementation of the DDS in the NAM/CAR Region

2.1 Based on the information reported to the ICAO NACC Regional Office (May 2026), it is observed that:

- Approximately 50% of States/Territories report partial or full implementation of the Aeronautical Information Exchange Model (AIXM),
- Similar number of DDS implementation, especially terrain data and obstacles.
- Very low implementation of aerodrome data.
- About 25% similar implementation of Electronic Aeronautical Information Publication (eAIP).
- But it has been observed that there are serious difficulties and delays in the quality management of the datasets already implemented.

2.2 These gaps have a direct impact on ICAO's objectives with the necessary requirements to reach SWIM.

3. Conclusions

3.1 In conclusion, the implementation of the AIP Datasets constitutes a fundamental and strategic step for the States of the NAM/CAR region in their transition towards a fully digital environment within the AIM. These datasets not only enable the structuring and digitization of critical aeronautical information contained in the Aeronautical Information Publication (AIP), but also lay the foundation for improving data quality, integrity, and availability, as well as being imperative to the implementation of SWIM.

3.2 In addition, progress in the implementation of the AIP dataset strengthens regional and international interoperability, facilitating integration with initiatives such as SWIM and enabling future capabilities such as FF-ICE. In this context, its progressive adoption by the States of the region represents a key milestone in consolidating data-based management and moving towards safer, more efficient and collaborative operations in civil aviation.

4. Actions

4.1 It is recommended that the Meeting:

- a) Take note of the progress and gaps identified;
- b) States in the NAM/CAR region are invited to prioritize and accelerate the implementation of the Aeronautical Information Release (AIP) Dataset, in accordance with ICAO provisions, by:
 - i. The preparation or updating of their AIS-AIM national transition plans, incorporating specific milestones for the digitalisation of AIP.
 - ii. The strengthening of technical and institutional capacities for the management of digital aeronautical data.
 - iii. Promoting interoperability and secure data exchange in preparation for SWIM environments.
 - iv. Periodic reporting of progress through regional AIM monitoring mechanisms.
- c) It is also recommended that both regions continue to provide technical support and coordination spaces, with a view to achieving harmonized implementation throughout the Region.