



International Civil Aviation Organization

MIDANPIRG/23 & RASG-MID/13 Meetings

(Cairo, Egypt, 14 – 18 June 2026)

Agenda Item 5.3: AIM

MID REGION IMPLEMENTATION PLAN FOR DIGITAL DATASETS

(Presented by Kingdom of Saudi Arabia)

SUMMARY

This Working Paper presents the progress achieved by the MID Region AIM Digital Products Task Force (AIMDP TF) in developing the AIP Digital Dataset Mapping Specification based on AIXM 5.1/5.1.1 in support of the transition from Aeronautical Information Services (AIS) to Aeronautical Information Management (AIM).

The paper highlights the importance of globally harmonized guidance material to support the implementation of digital aeronautical information products and services and notes ongoing ICAO activities related to the development of ICAO Doc 8126, Part IV – Digital Aeronautical Information Products and Related Services.

Action by the meeting is at paragraph 3.

REFERENCES

- AIMDP TF/1 Report, (Virtual, 21 April 2026)
- AIM SG/12 Report (Virtual, 22–23 April 2026)
- Annex 15 — Aeronautical Information Services
- Doc 10066 — Procedures for Air Navigation Services – Aeronautical Information Management (PANS-AIM)
- Doc 8126 — Aeronautical Information Services Manual

1. INTRODUCTION

1.1. MIDANPIRG/22 tasked the AIM Digital Products Task Force (AIMDP TF) to support the development of regional implementation guidance for Digital Aeronautical Information Products and Services.

1.2. In response to this tasking, AIMDP TF Workstream 3, under the co-leadership of the Kingdom of Saudi Arabia and the United Arab Emirates, developed an AIP Digital Dataset Mapping Specification based on AIXM 5.1/5.1.1.

1.3. The developed mapping covers key aeronautical information subjects including:

- a) ATS Airspace;
- b) Special Activity Airspace;
- c) ATS Routes and Route Segments;
- d) En-route Waypoints;
- e) Aerodromes and Heliports;
- f) Runways and Runway Directions;

- g) Final Approach and Take-Off Areas (FATO);
- h) Touchdown and Lift-Off Areas (TLOF); and
- i) Radio Navigation Aids.

1.4. The mapping of AIP digital data sets was developed through a multi-stage process involving:

- a) Analysis of ICAO Annex 15 and PANS-AIM requirements applicable to AIP digital aeronautical datasets;
- b) Review of implementation approaches in other ICAO regions, particularly EUROCONTROL guidance and EUR/NAT regional experience;
- c) A MID Region gap analysis identifying AIP sections that can be systematically encoded in AIXM 5.1/5.1.1 beyond the minimum scope specified in PANS-AIM.

2. DISCUSSION

2.1 The aviation community continues to progress towards a fully digital aeronautical information environment in support of System-Wide Information Management (SWIM), digital data exchange and advanced ATM operations.

2.2 Successful implementation of digital aeronautical information products requires harmonized technical specifications, common data modelling approaches and globally consistent guidance material.

2.3 The AIP Digital Dataset Mapping Specification developed by AIMDP TF represents a significant milestone for the MID Region and provides States with a practical foundation for the implementation of digital datasets using AIXM 5.1/5.1.1.

2.4 The implementation experience gained during the development of the specification highlighted the importance of comprehensive guidance material supporting digital aeronautical information products and services.

2.5 The meeting may wish to note the ongoing ICAO activities related to the development of ICAO Doc 8126, Part IV – Digital Aeronautical Information Products and Related Services, which is expected to further support States in the implementation of digital aeronautical information products.

2.6 Continued collaboration between ICAO, MIDANPIRG subsidiary bodies, States and international organizations will contribute to harmonized implementation and interoperability of digital aeronautical information products throughout the MID Region.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this Working Paper;
- b) acknowledge the progress achieved by AIMDP TF Workstream 3 in developing the AIP Digital Dataset Mapping Specification based on AIXM 5.1/5.1.1; and
- c) invite the ICAO Secretariat to continue the development and publication of guidance material related to Digital Aeronautical Information Products and Services, and to prioritize the publication of ICAO Doc 8126 Part IV.