



International Civil Aviation Organization

First Meeting of the Aeronautical Information Management Digitalization & Planning Task Force (AIMDP TF/1)

(Amman, Jordan, 20 – 21 January 2025)

Agenda Item 4: Digital Datasets Planning and Implementation

MID REGIONAL IMPLEMENTATION PLAN FOR DIGITAL DATASETS

(Presented by the secretariat)

SUMMARY

This Paper presents the MID Regional Implementation Plan for Digital Datasets as drafted by DDS Ad-hoc WG.

This paper outlines the MID Regional Implementation Plan for Digital Datasets, as developed by the DDS Ad-hoc Working Group. The plan provides a comprehensive framework for the implementation of aeronautical information digital datasets across the region, addressing three key aspects to ensure harmonization - “what to provide”, “how to provide it” and “when to provide it”.

Action by the meeting is at paragraph 3.

REFERENCES

- MIDANPIRG/21 meeting report
- Outcomes of the DDS Ad-hoc Working Group

1. INTRODUCTION

1.1 The meeting recalled that MIDANPIRG/18, through Conclusion 18/17, tasked the Digital Datasets Ad-hoc Working Group (DDI Ad-hoc WG) with the development of a detailed Regional Implementation Plan for Digital Datasets.

1.2 The MIDANPIRG/20 meeting, which was held in Muscat, Oman, from 14 to 17 May 2023, agreed through Conclusion 20/22, that:

- a) *the DDI Ad-hoc WG complete the Regional Implementation Plan for Digital Datasets by 31 December 2023; and*
- b) *the Regional Implementation Plan for Digital Datasets be reviewed by the AIM SG before submission to MIDANPIRG for endorsement.*

1.3 This document presents the outcomes of the Digital Datasets Implementation Ad-hoc Working Group in developing the MID Regional Implementation Plan for Digital Datasets. It highlights the key achievements, strategic recommendations, and actionable steps identified to support the effective implementation of digital datasets across the region.

1.4 It is worth remembering that the Digital Datasets Implementation Ad-hoc Working Group has been dissolved. In line with the goal of leveraging expertise and maximizing efficiency, the MIDANPIRG/21 meeting, through Decision 18/17, agreed to establish the Aeronautical Information Management Digitalization & Planning Task Force (AIMDP TF). The AIMDP TF is tasked with building on the work of the former Ad-hoc working group, ensuring continuity and avoiding the need to start from scratch.

2. DISCUSSION

2.1 Based on the regional best practices and available provisions in ICAO and Eurocontrol guidance material, the draft Regional Implementation Plan for Digital Datasets has been developed as at **Appendix A**, which is organised in several Parts, as follows:

- Part 1 –General Aspects of Digital Aeronautical Data Sets
- Part 2 – Provision of Terrain and Obstacle Data Sets
- Part 3 – Provision of Aerodrome Mapping Data Sets (AMD)
- Part 4 – Provision of Aeronautical Information Publication (AIP) Data Sets
- Part 5 – Provision of Instrument Flight Procedure Data Sets
- Part 6 – Database Driven Charting Implementation in MID Region
- Part 7 – Coordinated Deployment of the Digital Data Sets in Mid Region

2.2 Part 5 of the plan remains on hold pending the release of coding guidelines for the new Instrument Flight Procedures (IFP) data sets. Progress in this area is dependent on the completion of the new AIXM 5.2 version, which is currently under development.

2.3 In addition, Part 6 is reserved and left to the discretion of the AIMDP TF and MIDANPIRG decision whether to develop guidance and direction on Database Driven Charting Implementation.

2.4 Each part provides information about coding rules and guidelines for the data set. In addition, and to avoid complexity and reproduction of the existing material, relevant information are included together with the links to the websites as reference to help States finding useful resources. On top of that, the plan contains implementation steps of the digital data sets along with Data Set Specimen, as appropriate.

Coordinated Deployment of the Digital Data Sets in Mid Region

2.5 In order to ensure a coordinated and harmonized deployment of the digital AIS data sets in MID Region, three key aspects were considered to ensure harmonization - “what to provide”, “how to provide it” and “when to provide it”. The table below summarised the Scope, Format, Coding Specification, and timelines for the provision of Digital Data Sets in MID Region.

Data set category	Scope	Format	Coding Specification	Provision date	Transition Period for Removal of tables from AIP
AIP data set	GEN 2.5, ENR 2.1, ENR 3.1, ENR 3.2, ENR 3.3, ENR 3.4, ENR 4.1, ENR 4.2, ENR 4.4, ENR 4.5, ENR 5.1, ENR 5.2, ENR 5.3.1, ENR 5.3.2, ENR 5.5, AD 2.17, AD 2.19, AD 3.16, AD 3.18	AIXM 5.1/5.1.1	EUROCONTROL Specification on AIP Dataset https://ext.eurocontrol.int/aixm_confluence/display/ACGAIP/Overview	2030	5 years from the provision date of the AIP data set

Obstacle data set	Area 1: the entire territory of a State Areas 4, 2a + TKOF flight path + OLS for aerodromes regularly used by international civil aviation	AIXM 5.1/5.1.1	AIXM coding guidelines for obstacle data sets. https://ext.eurocontrol.int/aixm_confluence/	2018	5 years from the provision date of the AIP data set
	Areas 2b, 2c , 2d and 3 For aerodromes regularly used by international civil aviation			left to the discretion of each State	
Terrain data set	Area 1: the entire territory of a State Areas 4, 2a + TKOF flight path + OLS for aerodromes regularly used by international civil aviation	GeoTIFF for ESRI ASCII Grid	NA	2018	Not applicable
	Areas 2b, 2c , 2d and 3 For aerodromes regularly used by international civil aviation			left to the discretion of each State	
Aerodrome mapping data set	For aerodromes regularly used by international civil aviation	AIXM 5.1.1 and/or AMXM	https://ext.eurocontrol.int/aixm_confluence/display/ACGAMD/Information+exchange+models	left to the discretion of each State	Not applicable
IFP data set	a) procedure (all properties); b) procedure segment (all properties); c) final approach segment (all properties); d) procedure fix (all properties); e) procedure holding (all properties); and f) helicopter procedure (all properties) and the data publication requirements contained in PANS-OPS, Doc 8168, Volume II	AIXM 5.2	To be determined	To be determined	5 years from the provision date of the AIP data set

2.6 The proposed regional plan will be constantly maintained and improved by the AIMDP TF, taking into consideration input from the users and changes to the ICAO provision, in particular, the Doc8126 Vol 4.

2.7 Based on the above, the meeting may wish to agree on the following Draft Conclusion:

DRAFT CONCLUSION 1/XX: MID REGIONAL IMPLEMENTATION PLAN FOR DIGITAL DATASETS

That,

- a) the Regional Implementation Plan for Digital Datasets be circulated to Member States for review and feedback; and*
- b) the Regional Implementation Plan for Digital Datasets be presented to MIDANPIRG/22 for endorsement.*

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and discuss the draft Regional Implementation Plan for Digital Datasets; and
- b) endorse the draft conclusion at para. 2.7.
