



International Civil Aviation Organization

**TENTH MEETING OF THE MIDANPIRG AIM SUB-GROUP  
(AIM SG/10)**

*(Cairo, Egypt, 28 – 29 February 2024)*

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**Agenda Item 4: AIM Planning and Implementation in the MID Region**

**OUTCOME OF THE DIGITAL DATASETS IMPLEMENTATION AD-HOC WORKING GROUP  
(DDI AD-HOC WG)**

*(Presented by the Secretariat)*

**SUMMARY**

This Paper presents the outcome of the Digital Datasets Implementation Ad-hoc Working Group (DDI Ad-hoc WG).

Action by the meeting is at paragraph 2.

**REFERENCES**

- MIDANPIRG/20 meeting report

**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, was apprised of the progress achieved by the DDI Ad-hoc WG. The meeting noted that the lack of guidance and best practices, in particular the Doc 8126, Part IV publication was delayed until summer 2023 and the relatively low level of worldwide implementation of Digital Data sets greatly impeded the progress towards finalizing the draft MID Regional Implementation Plan for Digital Datasets. MIDANPIRG agreed through Conclusion MIDANPIRG 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 paper provides an update on the progress made by the Digital Datasets Implementation Ad-hoc Working Group in developing MID Regional Implementation Plan for Digital Datasets.

1.4 It should be noted that the Secretariat (rapporteur) has been working with the DDI Ad-hoc WG using online tools for their work and by exchange of emails.

## 2. DISCUSSION

2.1 Based on the regional best practices and available provisions in ICAO and Eurocontrol guidance material, the DDI Ad-hoc WG is finalising the drafting of Regional Implementation Plan for Digital Datasets 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 The DDI Ad-hoc WG will be working on the Part 5 of the plan pending the availability of coding guidelines for the new Instrument Flight Procedures data sets. This activity depends on the finalisation of the new AIXM 5.2 version.

2.3 In addition, Part 6 is reserved and left to the discretion of the AIM SG/10 meeting and MIDANPIRG decision whether to develop guidance on Database Driven Charting Implementation.

2.4 Each part provides information about coding rules, guidelines, limitations and possible workarounds 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
<b>AIP data set</b>	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  <a href="https://ext.eurocontrol.int/aixm_confluence/display/ACGAIP/Overview">https://ext.eurocontrol.int/aixm_confluence/display/ACGAIP/Overview</a>	left to the discretion of each State	5 years from the provision date of the AIP data set
<b>Obstacle data set</b>	Area 1: the entire territory of a State Areas 4, 2a + TKOF flight path + OLS for aerodromes regularly used by	AIXM 5.1/5.1.1	AIXM coding guidelines for obstacle data sets.  <a href="https://ext.eurocontrol.int/aixm_confluence/">https://ext.eurocontrol.int/aixm_confluence/</a>	2018	5 years from the provision date of the AIP data set

Data set category	Scope	Format	Coding Specification	Provision date	Transition Period for Removal of tables from AIP
	international civil aviation Areas 2b, 2c , 2d and 3 For aerodromes regularly used by international civil aviation			left to the discretion of each State	
<b>Terrain data set</b>	Area 1: the entire territory of a State Areas 4, 2a + TKOF flight path + OLS for aerodromes regularly used by international civil aviation Areas 2b, 2c , 2d and 3 For aerodromes regularly used by international civil aviation	GeoTIFF ESRI ASCII Grid	NA	2018  left to the discretion of each State	Not applicable
<b>Aerodrome mapping data set</b>	For aerodromes regularly used by international civil aviation	AIXM 5.1.1 and/or AMXM	<a href="https://ext.eurocontrol.int/aixm_confluence/display/ACGAMD/Information+exchange+models">https://ext.eurocontrol.int/aixm_confluence/display/ACGAMD/Information+exchange+models</a>	left to the discretion of each State	Not applicable
<b>IFP data set</b>	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	TBD	TBD	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 DDI Ad-hoc WG, 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 to replace and supersede the MIDANPIRG Conclusion 20/22:

***DRAFT CONCLUSION 10/XX: MID REGIONAL IMPLEMENTATION PLAN FOR DIGITAL DATASETS***

*That:*

- a) the DDI Ad-hoc WG complete the Regional Implementation Plan for Digital Datasets by 31 December 2024; and*
- b) the Regional Implementation Plan for Digital Datasets be presented to AIM SG/11 for final review.*

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review the outcomes of the DDI Ad-hoc WG; and
- b) endorse the draft conclusion in 2.7.

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