International Civil Aviation Organization

First Meeting of the Aeronautical Information Management Digitalization & Planning Task Force (AIMDP TF1)

(***Amman, Jordan, 20 – 21 January 2025***)

Agenda Item 5: **MID Air Navigation Strategy and eANP Volume III**

MID AIR NAVIGATION STRATEGY/ B1 - DAIM
AND ICAO MID EANP VOL. III

(Presented by the secretariat)

SUMMARY

This paper presents the revised MID Air Navigation Strategy in particular parts related to DAIM Thread/Elements. It also provides an update on the ASBU monitoring and reporting in the MID Region (DAIM).

Action by the meeting is at paragraph 3.

REFERENCES

− GANP 7th edition

− MID Region Air Navigation Strategy MID Doc 002

− MIDANPIRG/21 Report

1. **INTRODUCTION**

1.1   The meeting may wish to recall that the MIDANPIRG/21 meeting reviewed and endorsed, through MIDANPIRG CONCLUSION 21/2, the MID Region Air Navigation Strategy, Edition, March 2024. The MID Region Air Navigation Strategy edition March 2024 is available at: https://www.icao.int/MID/MIDANPIRG/Documents/eDocuments/MID%20Doc%20002%20-%20MID%20Air%20Navigation%20Strategy%20-%20Apr%202024.pdf

1.2   The meeting may wish to note that the ASBU DAIM Thread/Elements and the monitoring table were updated in the revised MID Region Air Navigation Strategy (ICAO MID Doc 002), in line with the Global Air Navigation Plan (GANP 7th edition).

2.   DISCUSSION

2.1   The meeting may wish to note that the ASBU DAIM Thread/Elements and the monitoring table were updated in the revised MID Region Air Navigation Strategy (ICAO MID Doc 002), in line with the Global Air Navigation Plan (GANP 7th edition), as follows:

MID REGION ASBU THREADS & ELEMENTS (BLOCK 0 & 1) PRIORITIZATION AND MONITORING

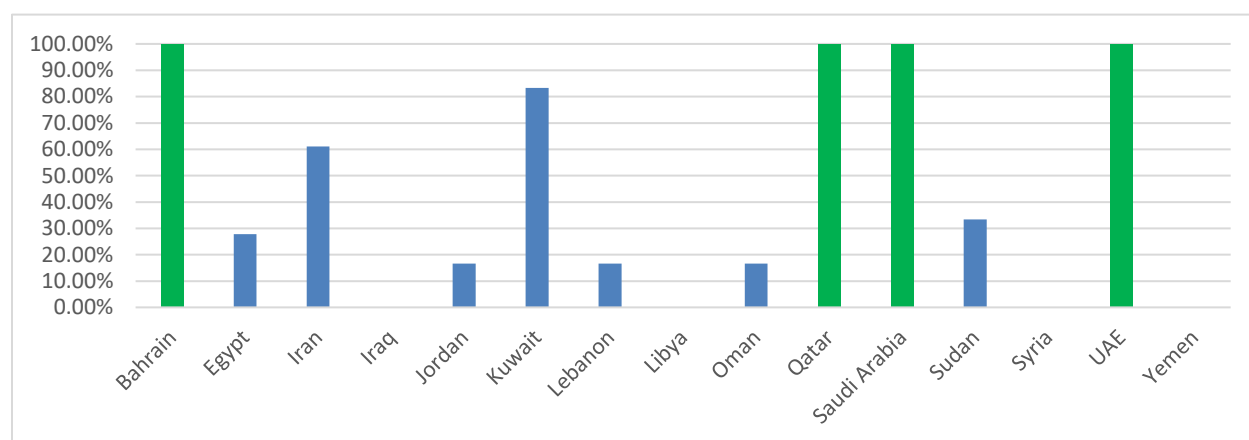| Thread	Element code	Title	Priority	Start Date	Monitoring		Remarks
					Main	**Supporting**	
Information Threads							
DAIM							
DAIM	**B1/1**	Provision of quality-assured aeronautical data and information	1	2021	AIM SG	RANP/NANP TF	
	B1/2	Provision of digital Aeronautical Information Publication (AIP) data sets	2				
	B1/3	Provision of digital terrain data sets	1	2021	AIM SG	RANP/NANP TF	
	B1/4	Provision of digital obstacle data sets	1	2021	AIM SG	RANP/NANP TF	
	B1/5	Provision of digital aerodrome mapping data sets	2				
	B1/6	Provision of digital instrument flight procedure data sets	2				
	B1/7	NOTAM improvements	2				

MONITORING THE IMPLEMENTATION OF THE PRIORITY 1 ASBU THREADS/ELEMENTS (Block 0 & 1) IN THE MID REGION

Element		Applicability	Performance Indicators/ Supporting Metrics	Baseline (2023)	Target	Timeline	KPA/ KPI
Information Threads							
DAIM							
DAIM B1/1	Provision of quality-assured aeronautical data and information	All States	Indicator*: Regional average implementation status of DAIM B1/1 (provision of quality-assured aeronautical data and information). Supporting Metrics: 1. Number of States that have implemented an AIXM-based AIS database (AIXM V5.1+) 2. Number of States that have established formal arrangements with at least 50% of their AIS data originators.	53%	80%	Dec 2021	N/A
DAIM B1/3	Provision of digital terrain data sets	All States	Indicator*: Regional average implementation status of DAIM B1/3(Provision of Terrain digital datasets). Supporting Metric: Number of States that provide required Terrain digital datasets	35%	60%	Dec 2021	N/A
DAIM B1/4	Provision of digital obstacle data sets	All States	Indicator*: Regional average implementation status of DAIM B1/4(Provision of obstacle digital datasets). Supporting Metric: Number of States that provide required obstacle digital datasets	35%	60 %	Dec 2021	N/A

2.2   The meeting may wish to take note of the current status of DAIM implementation. An updated methodology for estimating the actual level of implementation is provided in **Appendix A** for reference.

Module	Elements	Bahrain	Egypt	Iran	Iraq	Jordan	Kuwait	Lebanon	Libya	Oman	Qatar	Saudi	Sudan	Syria	UAE	Yemen
B1-DAIM	B1/1	dark green	green	green	red	green	green	green	red	green	dark green	dark green	dark green	red	dark green	red
	B1/3	dark green	yellow	green	red	red	dark green	red	red	red	dark green	dark green	red	red	dark green	red
	B1/4	dark green	red	green	red	red	dark green	red	red	red	dark green	dark green	red	red	dark green	red

Average Regional Implementation of DAIM is **44.4%**.

2.3   It is crucial to underscore that:

–   **DAIM B1/1 (Provision of Quality-Assured Aeronautical Data and Information):** The implementation status currently stands at **60%**, falling short of the regional target of **80%** set for December 2021.
–   **DAIM B1/3 (Provision of Digital Terrain Data Sets):** The implementation progress is at **37.7%**, significantly below the regional target of **60%** by December 2021.
–   **DAIM B1/4 (Provision of Digital Obstacle Data Sets):** With an implementation rate of **35.5%**, this metric also lags behind the regional target of **60%** for December 2021.

2.4   Key Actions for States to Consider:

Secure High-Level Commitment and Funding:
–   Raise awareness among high-level decision-makers to prioritize AIM projects and allocate dedicated funding within national aviation budgets.

  – Explore additional funding opportunities from international organizations, development banks, and other financial mechanisms to support implementation efforts.

Foster Collaboration and Resource Sharing:
  – Strengthen partnerships with aviation authorities, air navigation service providers (ANSPs), and industry stakeholders to align efforts, share resources, and avoid duplication of work.

Leverage Knowledge and Best Practices:
  – Participate in workshops, seminars, and training programs facilitated by ICAO MID to learn from states with advanced implementation levels and adopt proven best practices.

MID eANP Volume III

2.5   In line with TF responsibilities towards MIDANPIRG, the meeting should review and provide updates (as appropriate) to ICAO MID Air Navigation Plan (Doc 9708) - eANP Volume III (DAIM Tables) as **at Appendix A**, including :

  - Table -MID-DAIM-3-1 Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)
  - Table -MID- DAIM-3-2 Aeronautical Data Quality
  - Table -MID DAIM-3-3 World Geodetic System-1984 (WGS-84)
  - Table - MID-DAIM- 3-4-1 Provision of Terrain and Obstacle data sets for Areas 1 and 4
  - Table - MID- DAIM-3-4-2 Provision of Terrain and Obstacle data sets for Area 2, the take-off flight path area (TOFP) and the obstacle limitation surfaces (OLS)
  - Table - MID- DAIM-3-4-3 Provision of Terrain and Obstacle data sets for Area 3 and Airport Mapping Databases (AMDB)

Review and update of the MID Air Navigation Strategy DAIM Thread/Elements (MID Doc 002)

2.6   It is imperative to acknowledge that the evolution of AIS/AIM services in the MID Region must prioritize harmonization and digitalization across the entire aeronautical data chain. To achieve this, strategic updates to the Air Navigation Strategy—particularly the DAIM component—are essential. Key changes include transitioning to an automated, data-centric AIM environment, enhancing quality assurance processes, and expanding the provision of digital products. These steps will ensure alignment with ICAO's Global Air Navigation Plan (GANP) and drive the digital transformation of Aeronautical Information Management in the region. Therefore, the following changes are proposed to the meeting for review and discussion.

Element	Applicability	Performance Indicators/ Supporting Metrics	Baseline (2023)	Target	Timeline	KPA/ KPI
Information Threads						
DAIM						

	Element	Applicability	Performance Indicators/ Supporting Metrics	Baseline (2023)	Target	Timeline	KPA/ KPI
DAIM B1/1	Provision of quality-assured aeronautical data and information	All States	Indicator*: Regional average implementation status of DAIM B1/1 (provision of quality-assured aeronautical data and information). Supporting Metrics: 1. ~~Number of States that have implemented an AIXM-based AIS database (AIXM V5.1+)~~ 2. ~~Number of States that have established formal arrangements with at least 50% of their AIS data originators.~~ 1. Number of States Implementing Quality Assurance and Quality Control (QA/QC) Processes 2. Number of States that have established formal arrangements with with at least 50% of data originators ~~1.~~3. Number of States that have migrated to AIM automated data-centric environment	~~53~~45%	~~80~~70%	Dec ~~2021~~2027	N/A
DAIM-B1/2	Provision of digital Aeronautical Information Publication (AIP) data sets	Egypt, Oman, Qatar,Saudi Arabia, UAE…etc	Indicator*: Regional average implementation status of DAIM B1/2 (Provision of digital Aeronautical Information Publication (AIP) data set). Supporting Metrics: Number of States that provide digital Aeronautical Information Publication (AIP) data sets	15%	75%	Dec 2027	N/A
DAIM B1/3	Provision of digital terrain data sets	All States	Indicator*: Regional average implementation status of DAIM B1/3(Provision of Terrain digital datasets).	35%	60%	Dec 2021	N/A

Element	Applicability	Performance Indicators/ Supporting Metrics	Baseline (2023)	Target	Timeline	KPA/ KPI
		Supporting Metric: Number of States that provide required Terrain digital datasets				
DAIM B1/4	Provision of digital obstacle data sets	All States	Indicator*: Regional average implementation status of DAIM B1/4(Provision of obstacle digital datasets). Supporting Metric: Number of States that provide required obstacle digital datasets	35%	60 %	Dec 2021	N/A

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

    a) note and discuss the content of this working paper;

    b) review and update the MID eANP Volume III (DAIM Tables), at **Appendix A**;

    c) review and update the Status of DAIM implementation at **Appendix B**; and

    d) agree on necessary amendments to keep pace with the developments.

DAIM Digital Aeronautical Information Management

In order to assist States in the planning for the transition from AIS to AIM in an expeditious manner, the following Tables, should be used:

1- **Table DAIM 3-1** sets out the requirements for the Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID). It reflects the transition from the current product centric AIS to data centric AIM. For the future digital environment, it is important that the authoritative databases are clearly designated and such designation must be published for the users. This is achieved with the concept of the Integrated Aeronautical Information Database (IAID), a single access point for one or more authoritative databases (AIP, Terrain, Obstacles, AMDB, data-driven charting, etc.) for which the State is responsible. This Table will be used for the monitoring of the GANP and MID Region Air Navigation Strategy element DAIM-B1/1.

2- **Table DAIM 3-2** sets out the requirements for aeronautical data quality. It will be used for the monitoring of the GANP and MID Region Air Navigation Strategy element DAIM-B1/1.

3- **Table DAIM 3-3** sets out the requirements for the implementation of the World Geodetic System – 1984 (WGS-84). The requirement to use a common geodetic system remains essential to facilitate the exchange of data between different systems. The expression of all coordinates in the AIP and charts using WGS-84 is an important first step for the transition to AIM. This Table will be used for the monitoring of the GANP and MID Region Air Navigation Strategy element DAIM-B1/1.

4- **Table DAIM 3-4-1** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 1 and Area 4. It will be used for the monitoring of the GANP and MID Region Air Navigation Strategy elements DAIM-B1/3 and DAIM-B1/4.

5- **Table DAIM 3-4-2** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 2. It will be used for the monitoring of the GANP and MID Region Air Navigation Strategy elements DAIM-B1/3 and DAIM-B1/4.

6- **Table DAIM 3-4-3** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 3 and implementation of Airport Mapping Databases (AMDB). It will be used for the monitoring of the GANP and MID Region Air Navigation Strategy elements DAIM-B1/3, DAIM-B1/4 and B1/5.

Table DAIM 3-1

Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)

EXPLANATION OF THE TABLE

Column:

1   Name of the State or territory for which the provision of AIS/AIM products and services based on the IAID is required.

2   Requirement for the implementation and designation of the authoritative IAID, shown by:
>> FI – Fully Implemented
>> PI – Partially Implemented
>> NI – Not Implemented

> *Note 1 — The IAID of a State is a single access point for one or more databases (AIP, Terrain, Obstacles, AMDB, etc.). The minimum set of databases which should be integrated is defined in Annex 15.*

> *Note 2 — The information related to the designation of the authoritative IAID should be published in the AIP (GEN 3.1)*

3   Requirement for an IAID driven AIP production, shown by:
>> FI – Fully Implemented (eAIP: Text, Tables and Charts)
>> PI – Partially Implemented
>> NI – Not Implemented

> *Note 3 — AIP production includes, production of AIP, AIP Amendments and AIP Supplements*

> *Note 4 — Charts' GIS-based database should be interoperable with AIP database*

4   Requirement for an IAID driven NOTAM production, shown by:
>> FC – Fully Compliant
>> NC – Not Compliant

5   Requirement for an IAID driven SNOWTAM processing, shown by:
>> FI – Fully Implemented
>> NI – Not Implemented

6   Requirement for an IAID driven PIB production, shown by:
>> FC – Fully Compliant
>> PC – Partially Compliant
>> NC – Not Compliant

7   Requirement for Procedure design systems to be interoperable with the IAID, shown by:
>> FI – Fully Implemented
>> PI – Partially Implemented
>> NI – Not Implemented

> *Note 5 — full implementation includes the use of the IAID for the design of the procedures and for the storage of the encoded procedures in the IAID*

8   Requirement for ATS systems to be interoperable with the IAID, shown by:
>> FI – Fully Implemented

PI – Partially Implemented

NI – Not Implemented

9   Action Plan — short description of the State's Action Plan with regard to the provision of AIM products and services based on the IAID, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.

10   Remarks — additional information, including detail of "PC", "NC", "PI" and "NI", as appropriate.

TABLE DAIM-3-1
Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)

State	IAID	AIP	NOTAM	SNOWTAM	PIB	Procedure Design	ATS	Action Plan	Remarks
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*
BAHARAIN	FI	FI	FC	FI	FC	FI	FI		**AIXM:** 5.1
EGYPT	FI	PI	FC	FI	FC	PI	PI		**AIXM:** 5.1 (by 2020) 3 and 7 by 2020
IRAN,	NI	NI	NC	NI	NC	NI	NI		**AIXM:** NI Separate semi-automated NOTAM/SNOWTAM system is operative
IRAQ	NI	NI	NC	NI	NC	NI	NI		**AIXM:** NI
JORDAN	FI	NI	FC	FI	FC	NI	NI	2021	**AIXM:** 4.5 (through EAD)
KUWAIT	NI	NI	FC	NI	PC	NI	NI		**AIXM:** NI (5.1 in progress)
LEBANON	NI	NI	NC	NI	NC	NI	NI		**AIXM:** 4.5
LIBYA	NI	NI	NC	NI	NC	NI	NI		**AIXM:** NI
OMAN	NI	NI	NC	NI	NC	NI	NI	Apr 2021	**AIXM:** NI (5.1 in progress)
QATAR	PI	PI	FC	NI	FC	PI	NI	2021 – Data Integration (AIP, Terrain, Obstacle, Procedure Design and AMDB)	**AIXM:** 5.1
SAUDI ARABIA	NI	NI	NC	NI	NC	NI	NI	AIXM 5.1 & NOTAM: 2020	**AIXM:** 4.5
SUDAN	FI	FI	FC	NI	FC	FI	FI		**AIXM:** 5.1
SYRIA	NI	NI	NC	NI	NC	NI	NI	No Action Plan	**AIXM:** NI
UAE	FI	FI	NC	NI	PC	NI	PI	AMDB: 2016-2021; PIB: AVBL at OMAA, OMDB,	**AIXM:** 5.1.1

State	IAID	AIP	NOTAM	SNOWTAM	PIB	Procedure Design	ATS	Action Plan	Remarks
1	2	3	4	5	6	7	8	9	10
								OMDW, OMFJ, other ADs 2020; Procedure Design 2020; ATS: ACC AVBL, ADs 2020 Digital NOTAM: 2016-2021	
YEMEN	NI	NI	NC	NI	NC	NI	NI	No Action Plan	**AIXM:** NI

Table DAIM-3-2
Aeronautical Data Quality

EXPLANATION OF THE TABLE

Column:

1 Name of the State or territory.

2 Compliance with the requirement for implementation of QMS for Aeronautical Information Services including safety and security objectives, shown by:

    FC – Fully compliant

    NC – Not compliant

3 Compliance with the requirement for the establishment of formal arrangements with approved data originators concerning aeronautical data quality, shown by:

    FC – Fully compliant

    PC – Partially compliant

    NC – Not compliant

4 Implementation of digital data exchange with originators, shown by:

    FI – Implemented

    PI – Partially Implemented

    NI – Not implemented

  Note 1 — Information providing detail of "PI" and "NI" should be given in the Remarks column (percentage of implementation).

5 Compliance with the requirement for metadata, shown by:

    FC – Fully compliant

    PC – Partially compliant

    NC – Not compliant

6 Compliance with the requirements related to aeronautical data quality monitoring (accuracy, resolution, timeliness, completeness), shown by:

    FC – Fully compliant

    PC – Partially compliant

    NC – Not compliant

7 Compliance with the requirements related to aeronautical data integrity monitoring, shown by:

    FC – Fully compliant

    PC – Partially compliant

    NC – Not compliant

8 Compliance with the requirements related to the AIRAC adherence, shown by:

    FC – Fully compliant

    NC – Not compliant

9 Action Plan — short description of the State's Action Plan with regard to aeronautical data quality requirements implementation, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.

10 Remarks — additional information, including detail of "PC", "NC", "PI" and "NI", as appropriate.

TABLE DAIM-3-2
Aeronautical Data Quality

State	QMS	Establishme nt of formal agreements	Digital data exchange with originators	Metadat a	Data quality monitorin g	Data integrity monitorin g	AIRAC adherenc e	Action Plan	Remarks
1	2	3	4	5	6	7	8	9	10
BAHARAIN	FC	FC	FI	FC	FC	FC	FC		
EGYPT	FC	FC	PI	FC	PC	PC	FC	4, 6 and 7 by 2022	
IRAN,	FC	PC	NI	NC	FC	FC	FC		
IRAQ	NC	PC	NI	NC	NC	NC	FC		
JORDAN	FC	PC	NI	FC	FC	FC	FC	3, 4: 2021	
KUWAIT	FC	PC	NI	NC	NC	NC	FC		
LEBANON	NC	PC	NI	PC	PC	PC	FC		
LIBYA	NC	NC	NI	NC	NC	NC	NC	No Action Plan	
OMAN	FC	PC	NI	NC	PC	PC	FC	Apr 2021	
QATAR	FC	PC	NI	FC	FC	FC	FC	4: 2021, 3: 2020	
SAUDI ARABIA	FC	FC	NI	FC	FC	FC	FC	4: 2020	
SUDAN	FC	FC	PI	FC	FC	FC	FC	4: 2021	
SYRIA	NC	NC	NI	NC	NC	NC	NC	No Action Plan	
UAE	FC	PC	PI	FC	FC	FC	FC	4: implemented for some of internal stakeholders. Completion by 2020	
YEMEN	NC	NC	NI	PC	NC	NC	NC	No Action Plan	

Table DAIM-3-3

World Geodetic System-1984 (WGS-84)

EXPLANATION OF THE TABLE

Column:

1   Name of the State or territory for which implementation of WGS-84 is required.

2   Compliance with the requirements for implementation of WGS-84 for FIR and En-route points, shown by:
        FC – Fully compliant
        PC – Partially compliant
        NC – Not compliant

3   Compliance with the requirements for implementation of WGS-84 for Terminal Areas (arrival, departure and instrument approach procedures), shown by:
        FC – Fully compliant
        PC – Partially compliant
        NC – Not compliant

4   Compliance with the requirements for implementation of WGS-84 for Aerodrome, shown by:
        FC – Fully compliant
        PC – Partially compliant
        NC – Not compliant

5   Compliance with the requirements for implementation of Geoid Undulation, shown by:
        FC – Fully compliant
        PC – Partially compliant
        NC – Not compliant

6   Action Plan — short description of the State's Action Plan with regard to WGS-84 implementation, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.

7   Remarks — additional information, including detail of "PC" and "NC", as appropriate.

TABLE DAIM-3-3
World Geodetic System-1984 (WGS-84)

State	FIR/ENR	Terminal	AD	GUND	Action Plan	Remarks
1	2	3	4	5	6	7
BAHARAIN	FC	FC	FC	FC		
EGYPT	FC	FC	FC	FC		
IRAN	FC	FC	FC	FC		
IRAQ	FC	FC	FC	NC		
JORDAN	FC	FC	FC	FC		
KUWAIT	FC	FC	FC	FC		Last survey FEB 2015
LEBANON	FC	FC	FC	FC		
LIBYA	PC	PC	NC	NC	No Action Plan	
OMAN	FC	FC	FC	FC		
QATAR	FC	FC	FC	FC		Annual Validation/Survey
SAUDI ARABIA	FC	FC	FC	FC		
SUDAN	FC	FC	FC	FC		
SYRIA	FC	FC	FC	NC	No Action Plan	
UAE	FC	FC	FC	FC		
YEMEN	FC	FC	FC	FC		

Table DAIM-3-4-1
Provision of Terrain and Obstacle data sets for Areas 1 and 4

EXPLANATION OF THE TABLE

Column

1   Name of the State or territory for which Terrain and Obstacle data sets for Areas 1 and 4 are required.

2   Compliance with requirement for the provision of Terrain data sets for Area 1, shown by:
> FC – Fully Compliant
> PC – Partially Compliant
> NC – Not Compliant

3   Compliance with requirement for the provision of Terrain data sets for Area 4, shown by:
> FC – Fully Compliant
> PC – Partially Compliant
> NC – Not Compliant
> N/A – Not Applicable

4   Compliance with requirement for the provision of Obstacle data sets for Area 1, shown by:
> FC – Fully Compliant
> PC – Partially Compliant
> NC – Not Compliant

5   Compliance with requirement for the provision of Obstacle data sets for Area 4, shown by:
> FC – Fully Compliant
> PC – Partially Compliant
> NC – Not Compliant
> N/A – Not Applicable

6   Action plan — short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Areas 1 and 4, especially for items with a "PC" or "NC" status, including planned date(s) of full compliance, as appropriate.

7   Remarks— additional information, including detail of "PC" and "NC", as appropriate.

TABLE DAIM-3-4-1

Provision of Terrain and Obstacle data sets for Areas 1 and 4

State	Terrain data sets		Obstacle data sets		Action Plan	Remarks
	Area 1	Area 4	Area 1	Area 4		
1	2	3	4	5	6	7
BAHARAIN	FC	FC	FC	FC		
EGYPT	FC	FC	NC	NC	Completion of area 4 (HECA & HESH): Dec. 2019	
IRAN	FC	FC	FC	FC		
IRAQ	NC	NC	NC	NC		
JORDAN	PC	PC	NC	NC	2021	
KUWAIT	FC	FC	FC	FC		
LEBANON	NC	N/A	NC	N/A	2 & 4: Q2-2019	
LIBYA	NC	N/A	NC	N/A		
OMAN	NC	N/A	NC	N/A	Apr 2021	
QATAR	FC	FC	FC	FC		
SAUDI ARABIA	FC	FC	FC	FC		
SUDAN	NC	N/A	NC	N/A	2021	
SYRIA	NC	N/A	NC	N/A	No Action Plan	
UAE	FC	FC	FC	FC		
YEMEN	NC	N/A	NC	N/A	No Action Plan	

Table DAIM-3-4-2

Provision of Terrain and Obstacle data sets for Area 2, the take-off flight path area (TOFP) and the obstacle limitation surfaces (OLS)

EXPLANATION OF THE TABLE

Column

1   Name of the State or territory for which Terrain and Obstacle data sets for Area 2 are required.

2   Compliance with requirement for the provision of Terrain data sets for Area 2a, shown by:
> FC – Fully Compliant
> PC – Partially Compliant
> NC – Not Compliant

3   Compliance with requirement for the provision of Terrain data sets for Area 2b, shown by:
> FI – Fully Implemented
> PI – Partially Implemented
> NI – Not implemented
> N/A – Not Applicable

4   Compliance with requirement for the provision of Terrain data sets for Area 2c, shown by:
> FI – Fully Implemented
> PI – Partially Implemented
> NI – Not Implemented
> N/A – Not Applicable

5   Compliance with requirement for the provision of Terrain data sets for Area 2d, shown by:
> FI – Fully Implemented
> PI – Partially Implemented
> NI – Not Implemented
> N/A – Not Applicable

6   Compliance with requirement for the provision of Terrain data sets for the take-off flight path area (TOFP), shown by:
> FI – Fully Implemented
> PI – Partially Implemented
> NI – Not Implemented
> N/A – Not Applicable

7   Compliance with requirement for the provision of Terrain data sets for the obstacle limitation surfaces (OLS) shown by:
> FI – Fully Implemented
> PI – Partially Implemented
> NI – Not Implemented
> N/A – Not Applicable

8	Compliance with requirement for the provision of Obstacle data sets for Area 2a, shown by:

8   Compliance with requirement for the provision of Obstacle data sets for Area 2a, shown by:
         FC – Fully Compliant
         PC – Partially Compliant
         NC – Not Compliant

9   Compliance with requirement for the provision of Obstacle data sets for Area 2b, shown by:
         FI – Fully Implemented
         PI – Partially Implemented
         NI – Not implemented
         N/A – Not Applicable

10   Compliance with requirement for the provision of Obstacle data sets for Area 2c, shown by:
         FI – Fully Implemented
         PI – Partially Implemented
         NI – Not Implemented
         N/A – Not Applicable

11   Compliance with requirement for the provision of Obstacle data sets for Area 2d, shown by:
         FI – Fully Implemented
         PI – Partially Implemented
         NI – Not Implemented
         N/A – Not Applicable

12   Compliance with requirement for the provision of Obstacle data sets for the take-off flight path area (TOFP), shown by:
         FI – Fully Implemented
         PI – Partially Implemented
         NI – Not Implemented
         N/A – Not Applicable

13   Compliance with requirement for the provision of Obstacle data sets for the obstacle limitation surfaces (OLS), shown by:
         FI – Fully Implemented
         PI – Partially Implemented
         NI – Not Implemented
         N/A – Not Applicable

14   Action plan — short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Area 2, especially for items with a "PC", "PI", "NC" or "NI" status.

15   Remarks— additional information, including detail of "PC", "PI" and "NC", "NI", as appropriate.

TABLE DAIM-3-4-2

Provision of Terrain and Obstacle data sets for Area 2, the take-off flight path area (TOFP) and the obstacle limitation surfaces (OLS)

State	Terrain data sets						Obstacle data sets						Action Plan	Remarks
	Area 2a	Area 2b	Area 2c	Area 2d	TOFP	OLS	Area 2a	Area 2b	Area 2c	Area 2d	TOFP	OLS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BAHARAIN	FC	NI	NI	NI	FI	FI	FC	FI	FI	FI	FI	FI		
EGYPT	PC	PI	PI	PI	NI	NI	NC	NI	NI	NI	NI	NI	To be completed by 2022	
IRAN,	FC	FI	FI	FI	NI	NI	FC	FI	FI	FI	NI	NI		
IRAQ	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	To be completed by 2024	
JORDAN	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	To be completed by 2022	Area 2a, 2b and 2c implemented for OJAI RWY 26R/08L
KUWAIT	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI		
LEBANON	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	To be completed by Dec 2021	
LIBYA	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	No Action Plan	
OMAN	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	Apr 2021	
QATAR	FC	FI	FI	FI	FI	FI	FC	FI	FI	FI	FI	FI		

SAUDI ARABIA	PC	PI	PI	PI	PI	PI	FC	FI	FI	FI	PI	PI	To be completed by 2021	Obstacle and terrain data sets for area 2a, TOFP and OLS are provided in: OERK, OEDF, OEMA, and OEJN
SUDAN	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	2021	
SYRIA	NC	NI	NI	NI			NC	NI	NI	NI			No Action Plan	
UAE	PC	PI	PI	PI	PI	PI	PC	PI	PI	PI	PI	PI	To be completed by 2020	TOD Area 2 (all sub-areas) survey & data acquisition through international airport service providers
YEMEN	NC	NI	NI	NI	NI	NI	NC	NI	NI	NI	NI	NI	No Action Plan	

Table DAIM-3-4-3

Provision of Terrain and Obstacle data sets for Area 3 and Airport Mapping Databases (AMDB)

EXPLANATION OF THE TABLE

Column

1   Name of the State or territory for which Terrain and Obstacle data sets for Area 3 and AMDB are required.

2   Compliance with requirement for the provision of Terrain data sets for Area 3, shown by:
        FI – Fully Implemented
        PI – Partially Implemented
        NI – Not Implemented
        N/A – Not Applicable

3   Compliance with requirement for the provision of Obstacle data sets for Area 3, shown by:
        FI – Fully Implemented
        PI – Partially Implemented
        NI – Not Implemented
        N/A – Not Applicable

4   Implementation of AMDB, shown by:
        FI – Fully Implemented
        PI – Partially Implemented
        NI – Not Implemented
        N/A – Not Applicable

5   Action plan — short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Area 3 and AMDB implementation, especially for items with a "PC", "PI", "NC" or "NI" status.

6   Remarks— additional information, including detail of "PI" and "NI", as appropriate.

TABLE DAIM-3-4-3

Provision of Terrain and Obstacle data sets for Area 3 and Airport Mapping Databases (AMDB)

State	Terrain data sets (Area 3)	Obstacle data sets (Area 3)	AMDB	Action Plan	Remarks
1	2	3	4	5	6
BAHARAIN	NI	FI	NI	To be completed by 2021	
EGYPT	NI	NI	NI	To be completed by 2022	
IRAN	FI	FI	NI	AMDB 2021	
IRAQ	NI	NI	NI		
JORDAN	PI	PI	NI		Area 3 implemented for OJAI RWY 26R/08L
KUWAIT	FI	FI	NI		
LEBANON	NI	NI	NI	Area 3: Q4-2019 AMDB: no plan	
LIBYA	NI	NI	NI	No Action Plan	
OMAN	NI	NI	NI	Apr 2021	
QATAR	FI	FI	PI	AMDB: 2021	
SAUDI ARABIA	PI	PI	NI	Area 3 2022	
SUDAN	NI	NI	NI	2021	
SYRIA	NI	NI	NI	No Action Plan	
UAE	FI	FI	NI	AMDB: completed by 2021	AMDB technical infrastructure (metadata, model) implemented in IAID, pending compatibility analysis AIXM 5.1 with revised AMDB model (RTCA DO-272D) when released.
YEMEN	NI	NI	NI	No Action Plan	

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APPENDIX B

MID REGION DAIM IMPLEMENTATION STATUS

Updated on January 2025

STATE	B1/1 Provision of quality-assured aeronautical data and information		%	B1/3 Provision of terrain digital data sets			%	B1/4 Provision of obstacle digital data sets			%	DAIM %
	AIXM DB	SLA		Area 1	Area 4	2a/TOFP/OLS		Area 1	Area 4	2a/TOFP/OLS		
BHR	FI	FI	100	FC	FC	FI	100	FC	FC	FI	100	**100**
EGY	NI	FI	50	FC	NC	NI	33.3	NC	NC	NI	0	**37.6**
IRN	NI	FI	50	FC	FC	NI	66.6	FC	FC	NI	66.6	**71**
IRQ	NI	NI	0	NC	NC	NI	0	NC	NC	NI	0	**6.6**
JOR	FI	FI	100	NC	NC	NI	0	NC	NC	NI	0	**33.3**
KWT	NI	FI	50	FC	FC	NI	66.6	FC	FC	NI	66.6	**71**
LBN	NI	FC	50	NC	N/A	NI	0	NC	N/A	NI	0	**20**
LBY	NI	NI	0	NC	N/A	NI	0	NC	N/A	NI	0	**0**
OMN	FI	FI	100	NC	N/A	NI	0	NC	N/A	NI	0	**26.6**
QAT	FI	FC	100	FC	FC	FI	100	FC	FC	FI	100	**100**
SAU	FC	FC	100	FC	N/A	FI	100	FC	N/A	FI	100	**100**
SDN	FI	FI	100	NC	N/A	NI	0	NC	N/A	NI	0	**33.3**
SYR	NI	NI	0	NC	N/A	NI	0	NC	N/A	NI	0	**0**
UAE	FI	FI	100	FC	FI	FI	100	FC	FI	FI	100	**100**
YEM	NI	NI	0	NC	N/A	NI	0	NC	N/A	NI	0	**6.6**
Regional Implementation			60	Regional Implementation			37.7	Regional Implementation			35.5	43

APPENDIX B

B-2

Module	Elements	Bahrain	Egypt	Iran	Iraq	Jordan	Kuwait	Lebanon	Libya	Oman	Qatar	Saudi Arabia	Sudan	Syria	UAE	Yemen
B1-DAIM	B1/1															
	B1/3															
	B1/4															

Average Regional Implementation is **44.4%**.

Calculation of DAIM implementation (% rate)

SAMPLE

B1/1 – *Provision of quality-assured aeronautical data and information*					
State	**Sub-Elements**	*component*	*weighting factor*	*% of implementation*	*B1/1 implementation Σ (1, 2,3, 4)/4*
X	AIXM			100	100%
	SLA (50% of data originators)			100	
Y	AIXM			0	50%
	SLA (50% of data originators			100	
Z	AIXM			100	50%
	SLA(50% of data originators)			0	
Regional average Implementation status of DAIM B1/1 (provision of quality-assured aeronautical data and information)					**Σ (%)/number of States = 66.6%**

Table 2

SAMPLE

State	B1/3 : Provision of digital terrain data sets			% of Terrain digital datasets implementation Σ (1, 2 4)/3x % or Σ (1, 2)/2x %	B1/4: Provision of digital obstacle data sets			% of Terrain digital datasets implementation Σ (1, 2 4)/3x % or Σ (1, 2)/2x %
	Area 1	Area 4	2a/TOFP/OLS		Area 1	Area 4	2a/TOFP/OLS	
X	100%	100%	100%	100%	100%	100%	100%	100%
Y	100%	N/A[1]	0%	50%	0%	0%	0%	0%
Z	100%	50%[2]	40%[3]	63%[4]	100%	0%	20%[5]	40%
Regional average Implementation status of DAIM B1/3 (Provision of Terrain digital datasets)				**Σ (%)/number of States = 76.7%**	**Regional average Implementation status of DAIM B1/4 (Provision of obstacle digital datasets)**			**Σ (%)/number of States = 46.7%**

(1) N/A: Not Applicable
(2) 50% of international aerodrome where digital terrain data sets are provided for Area 4.
(3) 40% of international aerodrome where digital terrain data sets are provided for areas 2a/TOFP/OLS.
(4) 63%: the percentages in the table is calculated as the sum of percentages of implementation (100%+50%+ 40%= 190/3)
(5) 20% of international aerodromes where digital obstacle data sets are provided for areas 2a/TOFP/OLS.