



# **Sixth Meeting of the Aeronautical Information Management Sub-Group (AIM SG/6)**

*Cairo, Egypt, 21-23 January 2020*

**Sultanate of Oman**

**Jaffar Abdul-Amir**

**Director AIM**

# Outline

- ***Sultanate of Oman National AIM Implementation Roadmap***
- **Status of AIM Implementation and future plans**
- **Status of AIM Deficiencies**
- **Lessons Learned**
- **Challenges**
- **Recommendations**

# Sultanate of Oman National AIM Implementation Roadmap

	Related Steps	2016		2017		2018		2019		2020		2021		2022		Priority	Remarks
		1	2	1	2	1	2	1	2	1	2	1	2	1	2		
AIXM	P07, P08															1	Target: 75% by April 2021
eAIP	P11															1	Target: 100% by April 2021
Integrated Aeronautical Information Database	P06															2	Target: 65% by April 2021
Aeronautical Data Exchange	P09															2	Target: 50% by December 2021
Interoperability with MET	P19															3	
Aeronautical Information Briefing	P12															3	April 2021
Agreement with data originators	P18															1	Target: 86% by July 2020 & 100% by April 2021
Data Quality Monitoring	P01															1	Implemented
Data Integrity Monitoring	P02															1	Implemented
Terrain A-1	P13															2	April 2021
Obstacle A-1	P14															2	April 2021
Terrain A-4	P13															2	NA due to CAT 1 OPS
Obstacle A-4	P14															2	NA due to CAT 1 OPS
Terrain A-2a	P13															2	April 2021
Obstacle A-2a	P14															2	April 2021
Training	P16															1	Continuous
Communication networks	P10															3	
Digital NOTAM	P21															3	
Electronic Aeronautical Charts	P20															3	Target: 50% by December 2021
Terrain and Obstacle for Areas 2b, 2c, 2d and 3	P13, P14															3	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
Aerodrome Mapping	P15															3	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs

White: Planning

Light Green: Initial/On-going Implementation

Dark Green: Implemented (Performance Target achieved)



# Status of AIM Implementation (BO-DATM)

# Status of AIM Implementation

B0 – DATM: Service Improvement through Digital Aeronautical Information Management				
Elements	Applicability	Status	Action Plan/Timelines	Remarks
National AIM Roadmap	State	FI		
AIXM (version)	State	FI		AIXM 5.1
eAIP	State	NI	April 2021	FI
QMS	State	NC	Will be completed on 14 September 2020	ongoing project
WGS-84	ENR	FC		FC
	AD	FC		
	TMA	FC		
	GUND	FC		
TOD	Area 1 Terrain	NC	April 2021	For Area 4, Muscat & Salalah International , CAT1 Ops
	Area 1 Obstacle	NC		
	Area 4 Terrain			
	Area 4 Obstacle			

# Status of AIM Implementation

Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)			
Elements	Status	Action Plan	Remarks
IAID	NI	<i>The target to have 70% by December 2020</i>	<i>(FI/PI/NI)</i>
AIXM 5.1	NI	April 2021	<i>(FI) (version 5.1)</i>
eAIP (IAID-based)	NI	April 2021	<i>FI</i>
NOTAM (IAID-based)	NC	April 2021	<i>FC</i>
SNOWTAM (IAID-based)	NC	April 2021	<i>FC</i>
PIB (IAID-based)	NC	April 2021	<i>FC</i>
Charting (interoperable with IAID)	NC	<i>The target to have 70% by April 2021</i>	<i>PC</i>
Procedure Design (interoperable with IAID)	NI	<i>The target to have 50% by April 2021</i>	<i>PI</i>
ATS (interoperable with IAID)	NI	<i>(The target to have 50% by April 2021</i>	<i>PI</i>

# Status of AIM Implementation

Aeronautical Data Quality			
Elements	Status	Action Plan	Remarks
QMS	FC		
Formal agreement with originators	PC	<i>The target to have 100% by April 2021</i>	- DGMET - Occidental Company - Royal Air force of Oman
Digital data exchange with originators	NI	<i>The target to have 60% by April 2021</i>	NI
Metadata	NC	<i>The target to have 60% by April 2021</i>	NC
Data quality monitoring	FC		
Data integrity monitoring	FC		
AIRAC adherence	FC		

# Status of AIM Implementation

WGS-84			
Elements	Status	Action Plan	Remarks
FIR/ENR	FC		
Terminal	FC		
AD	FC		
GUND	FC		



# Status of AIM Implementation

eTOD			
Elements	Status	Action Plan	Remarks
Area 1 Terrain	NC	April 2021	FC by April 2021
Area 1 Obstacles	NC	April 2021	FC by April 2021
Area 4 Terrain	NA		Muscat & Salalah International, CAT1 Ops
Area 4 Obstacles	NA		Muscat & Salalah International, CAT1 Ops
Area 2a Terrain	NC	April 2021	FC by April 2021
Area 2a Obstacles	NC	April 2021	FC by April 2021
Area 2b Terrain	NI	April 2021	FI by April 2021
Area 2b Obstacles	NI	April 2021	FI by April 2021
Area 2c Terrain	NI	April 2021	FI by April 2021
Area 2c Obstacles	NI	April 2021	FI by April 2021
Area 2d Terrain	NI	April 2021	FI by April 2021
Area 2d Obstacles	NI	April 2021	FI by April 2021
Area 3 Terrain	NI	April 2021	FI by April 2021
Area 3 Obstacles	NI	April 2021	FI by April 2021
AMDB	NI	The target to have 50% by April 2021	PI by April 2021



## Future Plans - Outlook 2025

- Digitalizing the aeronautical data
- Sultanate of Oman will join the MIDAD project.
- Fully transition from AIS to AIM
- SWIM.

## Status of AIM Deficiencies

AIM Deficiency	Status	Action Plan/Timelines	Remarks
<i>Lack of Implementation of QMS</i>	<i>Ongoing project</i>	<i>the project will be completed by 14/9/2020</i>	<i>Not completed</i>
<i>Lack of AIXM-based AIS Database</i>	<i>Ongoing project</i>	<i>The target to have 70% of the date by April 2021</i>	<i>Not completed</i>
<i>Lack of the required Terrain Datasets for Area 1</i>	<i>The contract will be signed soon</i>	<i>April 2021</i>	<i>Not completed</i>
<i>Lack of the required Obstacle Datasets for Area 1</i>	<i>The contract will be signed soon</i>	<i>April 2021</i>	<i>Not completed</i>

# Lessons Learned

- Training shall be part of the main contract when purchasing any tools/ software
- Awareness workshops are needed for all data originators during the transition.
- Importance of having SLAs with data originators in order to receive a quality data as per ICAO requirement.
- Continuous monitoring/ reviewing of all AIM Manuals including SLAs

# Challenges

- Data exchange between states.
- Training for operational personnel.
- digitalization

# Recommendations

- ICAO to provide awareness by visiting states.
- Exchange visits between states in order to get experience.



Thank you