



# **Third Meeting of the Aeronautical Information Management Sub-Group (AIM SG/3)**

*Cairo, Egypt, 15-18 May 2017*

**Sultanate of Oman**

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# Outline

- ***Sultanate of Oman* National AIM Implementation Roadmap**
- **Status of B0-DATM Implementation**
- **Outlook 2020**
- **Status of AIM Deficiencies**
- **Lessons Learned**
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- **Recommendations**



# Sultanate of Oman National AIM Implementation Roadmap

OMAN NATIONAL AIM IMPLEMENTATION ROADMAP TEMPLATE

Phase/Step	Step No.	Timeline												Start	End	Remarks
		2014			2015			2016			2017					
Phase I																
AIRAC adherence	P-03													-	-	Implemented since 2011
WGS-84 implementation	P-05													-	-	Implemented since 1999
QMS	P-17													2016	2017	On going
Phase II																
Data Quality Monitoring	P-01													-	-	Implemented
Data Integrity Monitoring	P-02													-	-	Implemented
AIXM	P-06													2016	2018	The target is to have 70%
Unique identifiers	P-07													2016	2018	part of the ORAT project
Aeronautical information conceptual model	P-08													2016	2018	part of the ORAT project
eAIP	P-11													2016	2018	
Terrain A-1	P-13													2016	2018	
Obstacle A-1	P-14													2016	2018	
Terrain A-4	P-13													2016	2017	
Obstacle A-4	P-14													2016	2017	
Terrain A-2	P-13													2016	2018	Area 2a, 2b will be available by end of 2017, 2c & 2d by 3Q 2018



# *Sultanate of Oman* National AIM Implementation Roadmap



# Status of B0-DATM Implementation

## Abbreviations used in Status Tables:

NI: Not implemented

PI: Partially Implemented

FI: Fully Implemented

NC: Not Compliant

PC: Partially Compliant

FC: Fully Compliant

N/A: Not Applicable

*Note – NC/PC/FC is used for the provisions required by SARPS; NI/PI/FI are regionally agreed requirements*

Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)			
Elements	Status	Action Plan	Remarks
Integrated Aeronautical Information Database (IAID)	NI	December 2018	AIXM Database is installed
AIXM 5.1	NI	The target to have 70% by December 2018	Waiting for the data migration (expecting in September 2017)
eAIP (IAID-based)	NI	December 2018	Staff training completed, refresher course expecting in September 2017
NOTAM (IAID-based)	NC	December 2018	
SNOWTAM (IAID-based)	NC	December 2018	refresher course expecting before end of 2017
PIB (IAID-based)	NC	December 2018	
Charting (interoperable with IAID)	NC	December 2018	Charting Section has established, basic course has completed, expecting advance course this year.
Procedure Design (interoperable with IAID)	NI	December 2018	Staff training completed, soon will have PANDA software
ATS (interoperable with IAID)	NI	June 2019	



Aeronautical Data Quality			
Elements	Status	Action Plan	Remarks
Quality Management System (QMS)	NC	December 2017	<i>On going</i>
Formal agreement with originators	NC	<i>The target is to have 65% by December 2018</i>	
Digital data exchange with originators	NI	Expecting in December 2019	
Metadata	NC	December 2018	
Data quality monitoring	FC		
Data integrity monitoring	FC		
AIRAC adherence	FC		



WGS-84			
Elements	Status	Action Plan	Remarks
FIR/ENR	FC		
Terminal	FC		
AD	FC		
Geoid Undulation (GUND)	FC		



electronic Terrain and Obstacle Datasets (eTOD)			
Elements	Status	Action Plan	Remarks
Area 1 Terrain	NC	December 2018	
Area 1 Obstacles	NC	December 2018	
Area 4 Terrain	NC	December 2018	<i>No cat 2 ops at Muscat INTL</i>
Area 4 Obstacles	NC	December 2018	<i>No cat 2 ops at Muscat INTL</i>
Area 2a Terrain	NC	December 2018	
Area 2a Obstacles	NC	December 2018	
Area 2b Terrain	NI	December 2018	
Area 2b Obstacles	NI	December 2018	
Area 2c Terrain	NI	December 2018	
Area 2c Obstacles	NI	December 2018	
Area 2d Terrain	NI	December 2018	
Area 2d Obstacles	NI	December 2018	
Area 3 Terrain	NI	December 2018	
Area 3 Obstacles	NI	December 2018	
AMDB	NI	December 2018	



# Outlook 2020

## (Status of B0-DATM by 2020)



B0 – DATM: Service Improvement through Digital Aeronautical Information Management				
Elements	Applicability	Status	Action Plan/Timelines	Remarks
National AIM Roadmap	State	FI		
AIXM 5.1	State	NI	<i>The target to have 70% by December 2018</i>	<i>The database is installed, waiting for data migration</i>
eAIP	State	NI	December 2018	
QMS	State	NC	<i>To be completed by December 2017</i>	<i>On going</i>
WGS-84	ENR	FC		
	AD	FC		
	TMA	FC		
	GUND	FC		
eTOD	Area 1 Terrain	NC	December 2018	
	Area 1 Obstacle	NC		
	Area 4 Terrain	NC		
	Area 4 Obstacle	NC		



## Status of AIM Deficiencies

AIM Deficiency	Status	Action Plan/Timelines	Remarks
Lack of implementation of QMS	on going	<i>December 2017</i>	<i>Not completed</i>
Lack of AIXM-based AIS Database	on going	The target is to have 70% of the data by June 2018	<i>Not completed</i>
Lack of the required Terrain Datasets for eTOD Area 1		<i>December 2018</i>	
Lack of the required Obstacle Datasets for eTOD Area 1		<i>December 2018</i>	



# Lessons Learned

- AIP data migration contract shall be part of the main contract when buying the system.
- The only compatible software for procedure design with Comsoft equipment is PANDA software.



# Challenges

➤ lack of staff.



# Recommendations

- Installation of AIM equipment shall be prior to any theoretical training.



Thank you