



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

Cairo, Egypt, 15-18 May 2017

Qatar

Presented by Faisal Alqahtani

Head of AIS



Outline

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



Qatar National AIM Implementation Roadmap

Phase/Step	Step No.	Timeline					Start	End	REMARKS
		2014	2015	2016	2017	2018			
Phase I									
AIRAC adherence monitoring	P-03						2010	-	Already Implemented
WGS-84 implementation	P-05						2009	-	Already Implemented
QMS	P-17						2011	-	Already Implemented
Phase II									
Data quality monitoring	P-01						2011	2017	
Data integrity monitoring	P-02						2011	2017	
AIXM	P-06						2012	2017	
Unique identifiers	P-07						2012	2017	
Aeronautical information conceptual model	P-08						2012	2017	
eAIP	P-11						2013	-	Already Implemented
Terrain A-1	P-13						2009	-	Already Implemented
Obstacles A-1	P-14						2009	-	Already Implemented
Terrain A-4	P-13						2009	-	Already Implemented
Obstacles A-4	P-14						2009	-	Already Implemented
Terrain A-2a,b,c,d	P-13						2013	-	Already Implemented
Obstacles A-2a,b,c,d	P-14						2013	-	Already Implemented
Terrain A-3	P-13						2009	-	Already Implemented
Obstacles A-3	P-14						2009	-	Already Implemented
AD mapping	P-15						2012	2017	
Phase III									
Aeronautical data exchange	P-09						2012	2017	AIXM 5.1
Communication networks	P-10						2012	2018	
Aeronautical information briefing	P-12						2012	2018	
Training	P-16						2012	2018	
Agreements with data originators	P-18						2010	-	Already Implemented
Interoperability with meteorological products	P-19						2014	2018	
Electronic aeronautical charts	P-20						2012	2018	
Digital NOTAM	P-21								

Legend		Not Started
		In Progress
		Implemented



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)	PI	Q3/2017	
AIXM (+version)	FI	-	<i>AIXM version 5.1</i>
eAIP (IAID-based)	PI	Q3/2017	
NOTAM (IAID-based)	FC	-	
SNOWTAM (IAID-based)	-	-	<i>Not applicable due to Local climate precludes the requirement</i>
PIB (IAID-based)	FC	-	
Charting (interoperable with IAID)	PC	Q3/2017	
Procedure Design (interoperable with IAID)	PI	Q2/2018	
ATS (interoperable with IAID)	NI	Q4/2018	<i>Under development</i>



Aeronautical Data Quality			
Elements	Status	Action Plan	Remarks
Quality Management System (QMS)	FC	-	
Formal agreement with originators	PC	Q4/2017	<i>SLA with MIL in progress</i>
Digital data exchange with originators	PI	Q4/2018	<i>Data exchange with ATS & AD Operator (A-CDM) under development</i>
Metadata	FC	-	
Data quality monitoring	PC	Q3/2017	
Data integrity monitoring	PC	Q3/2017	
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	FC	-	
Area 1 Obstacles	FC	-	
Area 4 Terrain	FC	-	
Area 4 Obstacles	FC	-	
Area 2a Terrain	FC	-	
Area 2a Obstacles	FC	-	
Area 2b Terrain	FC	-	
Area 2b Obstacles	FC	-	
Area 2c Terrain	FC	-	
Area 2c Obstacles	FC	-	
Area 2d Terrain	FC	-	
Area 2d Obstacles	FC	-	
Area 3 Terrain	FI	-	
Area 3 Obstacles	PI	Q4/2017	<i>OTBD Area 3 to be surveyed</i>
AMDB	PI	Q2/2017	



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	Qatar	FI	-	
AIXM (+version)	Qatar	FI	-	AIXM Ver. 5.1
eAIP	Qatar	FI	-	
QMS	Qatar	FC	-	
WGS-84	ENR	FC	-	
	AD	FC		
	TMA	FC		
	GUND	FC		
eTOD	Area 1 Terrain	FC	-	
	Area 1 Obstacle	FC		
	Area 4 Terrain	FC		
	Area 4 Obstacle	FC		



Status of AIM Deficiencies

AIM Deficiency	Status	Action Plan/Timelines	Remarks
<i>None</i>	-	-	-



Lessons Learned

- Importance of agreement with data originators (e.g. Aerodrome Operator, ATS units, etc.) for the provision of aeronautical data.
- Importance of detailed action plan with target timelines to achieve the goals and objectives of AIM Roadmap, ASBU and MID Air Navigation Strategies/Priorities.
- Importance of continuous monitoring/review of AIM implementation goals to ensure sustainable development.



Challenges

- Aeronautical data availability for aerodrome mapping
- Data exchange between different AIM system (eAIP, charting, PANS-OPS tools, IFPS) as well as with ATS and other data originators
- Maintenance of eTOD datasets (update schedule)



Recommendations

- Develop requirements for digital data exchange with data originators
- Plan for the next five (5) years for the eTOD datasets update
- Develop training programmes for AIM staff
- Organize awareness seminars on AIM requirements among stakeholders



Thank you