



KINGDOM OF BAHRAIN

Ministry of Transportation
and Telecommunications

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

Cairo, Egypt, 15-18 May 2017

Kingdom of Bahrain

BCAA



Outline

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



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Bahrain National AIM Implementation Roadmap

- **latest Bahrain National AIM Implementation Roadmap
(Version 3.1 – 1/1/2016)**
- **Implementation Status:**
 - **Phase One: 100%**
 - **Phase Two: 95%**
 - **Phase Three: 60%**



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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



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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)	FI		
AIXM (+version)	FI		AIXM 5.1
eAIP (IAID-based)	FI		
NOTAM (IAID-based)	FC		
SNOWTAM (IAID-based)	FC		
PIB (IAID-based)	FC		
Charting (interoperable with IAID)	FC		Exception: Aerodrome (PC) upgrade plan: 2018
Procedure Design (interoperable with IAID)	FI		
ATS (interoperable with IAID)	FI		



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Aeronautical Data Quality			
Elements	Status	Action Plan	Remarks
Quality Management System (QMS)	FC		
Formal agreement with originators	FC		Exception: Military (ongoing)
Digital data exchange with originators	PC	2020	Ongoing gradual introduction of educational and exchange interface developments with major originators
Metadata	FC		
Data quality monitoring	FC		
Data integrity monitoring	FC		
AIRAC adherence	FC		



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



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electronic Terrain and Obstacle Datasets (eTOD)			
Elements	Status	Action Plan	Remarks
Area 1 Terrain	N/A		
Area 1 Obstacles	FC		
Area 4 Terrain	N/A		
Area 4 Obstacles	FC		
Area 2a Terrain	N/A		
Area 2a Obstacles	FC		
Area 2b Terrain	N/A		
Area 2b Obstacles	FC		
Area 2c Terrain	N/A		
Area 2c Obstacles	FC		
Area 2d Terrain	N/A		
Area 2d Obstacles	FC		
Area 3 Terrain	N/A		
Area 3 Obstacles	FC		
AMDB	N/I		Planned: 2018



Outlook 2020

(Status of B0-DATM by 2020)



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B0 – DATM: Service Improvement through Digital Aeronautical Information Management				
Elements	Applicability	Status	Action Plan/Timelines	Remarks
National AIM Roadmap	State	FC		Updated (Version 3.1 – 1/1/2016)
AIXM (+version)	State	FC		AIXM 5.1 (2016)
eAIP	State	FC		
QMS	State	FC		
WGS-84	ENR	FC		
	AD	FC		
	TMA	FC		
	GUND	FC		
eTOD	Area 1 Terrain	N/A		
	Area 1 Obstacle	FC		
	Area 4 Terrain	N/A		
	Area 4 Obstacle	FC		



Status of AIM Deficiencies



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- NIL AIM Deficiencies.



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Lessons Learned

- Stakeholders involvement through sharing the updated National AIS-AIM transition Road Map will result positive awareness and collaborative implementation
- Planned Implementation inline with ASBU timelines



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Challenges

- System upgrades difficulties in terms implementation requirements of and the adoption of amendments
- Continuous training demands
- Stakeholders/Originators community awareness
- Originators SLAs



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Recommendations

- Thoughtful transition plan development in accordance with the MID Air Navigation Strategies, GANP and ICAO ASBU regional requirements/guidelines.
- Regulatory role in the implementation process
- The development of the AIS-AIM transition Action Plan and implementation monitoring mechanism.



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Thank you