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

Cairo, Egypt, 21-23 Jan 2020

Kingdom of Bahrain

BCAA

Outline

➢ **Bahrain National AIM Implementation Roadmap**

➢ **Status of AIM Implementation and future plans**

- B0-DATM Implementation

- Outlook 2023

➢ **Status of AIM Deficiencies**

➢ **Lessons Learned**

➢ **Challenges**

➢ **Recommendations**

Bahrain National AIM Implementation Roadmap

Bahrain Aeronautical Information Service

AIM Roadmap & Strategy 2023

Transition from AIP production to Static Data Organization to AIM

Version 5.0 2018

Bahrain National AIM Implementation Roadmap

➢ **Implementation Status:**

▪ **Phase One: 100%**

- Quality requirements;

- AIRAC adherence;

- Implementation & Adoptation of standard reference system for coordinates (World Geodetic System-1984);

- Provision of Terrain and Obstacle data.

Bahrain National AIM Implementation Roadmap

➢ **Implementation Status:**

▪ **Phase Two: 90%**

- Introduction of database-driven processes

- Improved quality and availability of products

- National & regional databased products and services

- Enhanced quality and availability

- Electronic AIP initiation

Bahrain National AIM Implementation Roadmap

➢ **Implementation Status:**

▪ **Phase Three: 60%**

- Support new AIM functions

- Improved Quality control

- Training

- Planned future ATM components products and services for the new provision of air navigation concept

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)	FI		
AIXM (+version)	FI		AIXM 5.1 (2016)
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: 2019
Procedure Design (interoperable with IAID)	FI		
ATS (interoperable with IAID)	FI		

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 exchange interface developments with major originators
Metadata	FC		
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	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		(BAIMS new version) 2019

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	FC		Updated (Version 5 2018)
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

- NIL AIM Deficiencies.

Lessons Learned

➢ **Stakeholders involvement**

➢ **Sharing the National AIS-AIM Road Map will result positive awareness and collaborative implementation**

➢ **Planned Effective Implementation of the transition inline with ASBU timelines**

Challenges

➢ **System upgrades difficulties in terms requirements of the adoption of amendments**

➢ **Originators SLAs**

➢ **Continuous training**

➢ **Stakeholders & Originators awareness**

Recommendations

➢ **Transition plan development in accordance with the MID Air Navigation Strategies, GANP and ASBU`s regional requirements/priorities**

➢ **Development of the AIS-AIM transition Action Plan and performance monitoring mechanism (SPIs/KPIs)**

➢ **Regulatory role in the implementation process**

Thank you