



**5th Meeting of the Aeronautical Information
Management Sub-Group (AIM SG/5)
*Cairo, Egypt, 22-24 January 2019***



**EGYPT
ASBU B0-DATM Implementation Status**

AIM SG/5, Cairo, Egypt, 22-24 January 2019



Outline

- EGYPT National AIM Implementation Roadmap**
- Status of B0-DATM Implementation**
- Status of Implementation of New AIM Provisions**
- Challenges**



EGYPT National AIM Implementation

Egypt AIM Committee



- ❑ National AIM Committee is established and held periodically.
- ❑ Egypt B0-DATM Implementation status is provided by the end of the year.
- ❑ National ASBU B0-DATM is implemented aligning with (MID Doc 002).



National AIM Plan

STATUS OF EGYPT B0-DATM IMPLEMENTATION

AIM SG/5, Cairo, Egypt, 22-24 January 2019



EGYPT National AIM Implementation Roadmap



| Phase/Step | Step No. | Timeline | | | | | Start | End | Remarks | |
|---|----------|----------|------|------|------|------|-------|------|---------|--|
| | | 2016 | 2017 | 2018 | 2019 | 2020 | | | | |
| Phase I | | | | | | | | | | |
| AIRAC adherence | P-03 | | | | | | | 2008 | - | Already Implemented |
| WGS-84 implementation | P-05 | | | | | | | 2008 | - | Already Implemented |
| QMS | P-17 | | | | | | | 2007 | - | Already Implemented |
| Phase II | | | | | | | | | | |
| Data Quality Monitoring | P-01 | | | | | | | 2006 | 2019 | SLA are implemented with most data originators |
| Data Integrity Monitoring | P-02 | | | | | | | 2006 | 2019 | The target is to be implemented by 2019 |
| AIXM | P-06 | | | | | | | 2006 | - | Already Implemented |
| Unique identifiers | P-07 | | | | | | | 2006 | - | Already Implemented |
| Aeronautical information conceptual model | P-08 | | | | | | | 2006 | - | Already Implemented |
| eAIP | P-11 | | | | | | | 2014 | 2019 | The target is to be implemented 2019 |
| Terrain A-1 | P-13 | | | | | | | 2007 | - | Already Implemented |
| Obstacle A-1 | P-14 | | | | | | | 2017 | 2020 | The target is to be implemented 2020 |
| Terrain A-4 | P-13 | | | | | | | 2007 | - | Already Implemented |
| Obstacle A-4 | P-14 | | | | | | | 2017 | 2019 | The target is to be implemented 2019 |
| Terrain A-2 | P-13 | | | | | | | | 2020 | The target is to be implemented 2020 |
| Obstacle A-2 | P-14 | | | | | | | | 2020 | The target is to be implemented 2020 |
| Terrain A-3 | P-13 | | | | | | | 2018 | 2020 | The target is to be implemented 2020 |
| Obstacle A-3 | P-14 | | | | | | | 2018 | 2020 | The target is to be implemented 2020 |



EGYPT National AIM Implementation Roadmap



| Phase/Step | Step No. | Timeline | | | | | | | | | | | | Start | End | Remarks | | |
|---|----------|----------|------|------|------|------|--|--|--|--|--|--|--|-------|-----|---------|------|--|
| | | 2016 | 2017 | 2018 | 2019 | 2020 | | | | | | | | | | | | |
| Phase II | | | | | | | | | | | | | | | | | | |
| AD Mapping | P-15 | | | | | | | | | | | | | | | 2019 | 2020 | The Target is to be implemented 2020 |
| Phase III | | | | | | | | | | | | | | | | | | |
| Aeronautical data exchange | P-09 | | | | | | | | | | | | | | | 2018 | 2020 | |
| Communication networks | P-10 | | | | | | | | | | | | | | | 2005 | 2020 | |
| Aeronautical information briefing | P-12 | | | | | | | | | | | | | | | 2001 | 2020 | |
| Training | P-16 | | | | | | | | | | | | | | | 2005 | 2020 | |
| Agreement with data originators | P-18 | | | | | | | | | | | | | | | 2006 | 2019 | SLA are implemented with most data originators |
| Interoperability with meteorological products | P-19 | | | | | | | | | | | | | | | 2017 | 2020 | |
| Electronic aeronautical charts | P-20 | | | | | | | | | | | | | | | 2013 | 2020 | |
| Digital NOTAM | P-21 | | | | | | | | | | | | | | | 2013 | 2020 | |



Status of Egypt B0-DATM Implementation



B0 – DATM: Service Improvement through Digital Aeronautical Information Management

| Elements | Applicability | Status | Action Plan/Timelines | Remarks |
|----------------------|--|--|--|---|
| National AIM Roadmap | Egypt | Fully Implemented | - | Updated Version by Nov 2018 |
| AIXM | Egypt | Fully Implemented | - | Current: version 4.5 upgrading to version 5.1 by 2019 |
| eAIP | Egypt | Partially Implemented | Fully Implemented by Dec 2019 | |
| QMS | Egypt | Fully Compliant | - | |
| WGS-84 | ENR AD TMA GUND | Fully Compliant | - | |
| eTOD | Area 1 Terrain Area 1 Obstacle Area 4 Terrain Area 4 Obstacle | Fully Compliant Not Compliant Fully Compliant Partially Compliant | To be completed by 2020 To be completed by 2019 | |

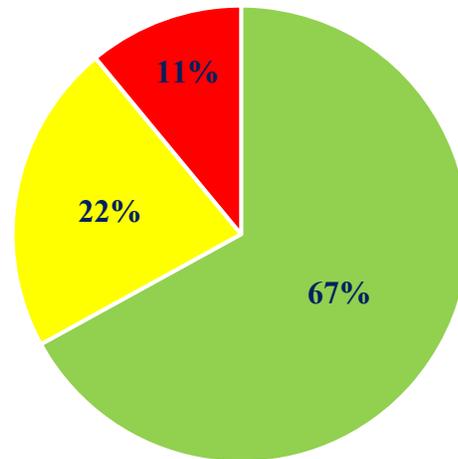


B0-DATM Progress in ASBU B0 Implementation (Priority 1)



| ASBU B0 | APTA | | SURF | | ACDM | FICE | | | DATM | | | | | | | | AMET | FRTO | | NOPS | ACAS | SNET | CDO | CCO | | | | | | | |
|---------|----------|------|-----------|----------|----------|-------|-----------|-----------|-----------|-------------|-------------|-----------|-------------|-------------|---------------|-----------------|---------------|---------------|--------------|------|------|---------------|-------|-------|------|------|-----------|-----|----------|-----|--|
| | PBN Plan | LNAV | LNAV/VNAV | ASMGCS 1 | ASMGCS 2 | Total | AMHS Cap. | AMHS Imp. | AIDC/OLDI | AIM Plan | AIXM | eAIP | QMS | WGS-84 | eTOD Area 1 T | eTOD Area 1 O | eTOD Area 4 T | eTOD Area 4 O | SADIS 2G/FTP | QMS | FUA | Flex. Routing | Total | Total | STCA | MSAW | PBN STARS | CDO | PBN SIDs | CCO | |
| EGYPT | | | | | | | | | | Implemented | Implemented | Partially | Implemented | Implemented | Implemented | Not Implemented | Implemented | Partially | | | | | | | | | | | | | |

ASBU B0-DATM



- Implemented
- Partially
- Not Implemented



Status of Egypt B0-DATM Implementation

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 | - | <i>version 4.5 – upgrading to version 5.1 by 2019</i> |
| eAIP (IAID-based) | PI | To be completed by 2019 | <i>eAIP is provided in digital format - CD since 2006</i> |
| NOTAM (IAID-based) | FC | - | |
| SNOWTAM (IAID-based) | FI | - | |
| PIB (IAID-based) | FC | - | |
| Procedure Design (interoperable with IAID) | NI | To be completed by 2019 | |
| ATS (interoperable with IAID) | PI | - | |



Status of Egypt B0-DATM Implementation

| Aeronautical Data Quality | | | |
|--|--------|-------------------------|---------|
| Elements | Status | Action Plan | Remarks |
| Quality Management System (QMS) | FC | - | |
| Formal agreement with originators | PC | To be completed by 2019 | |
| Digital data exchange with originators | PI | To be completed by 2019 | |
| Metadata | FC | - | |
| Data quality monitoring | PC | To be completed by 2019 | |
| Data integrity monitoring | PC | To be completed by 2019 | |
| AIRAC adherence | FC | - | |



Status of Egypt B0-DATM Implementation

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



Status of Egypt B0-DATM Implementation



| electronic Terrain and Obstacle Datasets (eTOD) | | | |
|---|--------|----------------------|-----------------------|
| Elements | Status | Action Plan | Remarks |
| Area 1 Terrain | FC | - | |
| Area 1 Obstacles | NC | To be completed 2020 | |
| Area 4 Terrain | FC | - | |
| Area 4 Obstacles | PC | To be completed 2019 | |
| Area 2a Terrain | PC | To be completed 2020 | HECA & HEBA Completed |
| Area 2a Obstacles | NC | To be completed 2020 | |
| Area 2b Terrain | PI | To be completed 2020 | HECA & HEBA Completed |
| Area 2b Obstacles | NI | To be completed 2020 | |
| Area 2c Terrain | PI | To be completed 2020 | HECA & HEBA Completed |
| Area 2c Obstacles | NI | To be completed 2020 | |
| Area 2d Terrain | PI | To be completed 2020 | HECA & HEBA Completed |
| Area 2d Obstacles | NI | To be completed 2020 | |
| Area 3 Terrain | NI | To be completed 2020 | |
| Area 3 Obstacles | NI | To be completed 2020 | |
| AMDB | NI | To be completed 2020 | |



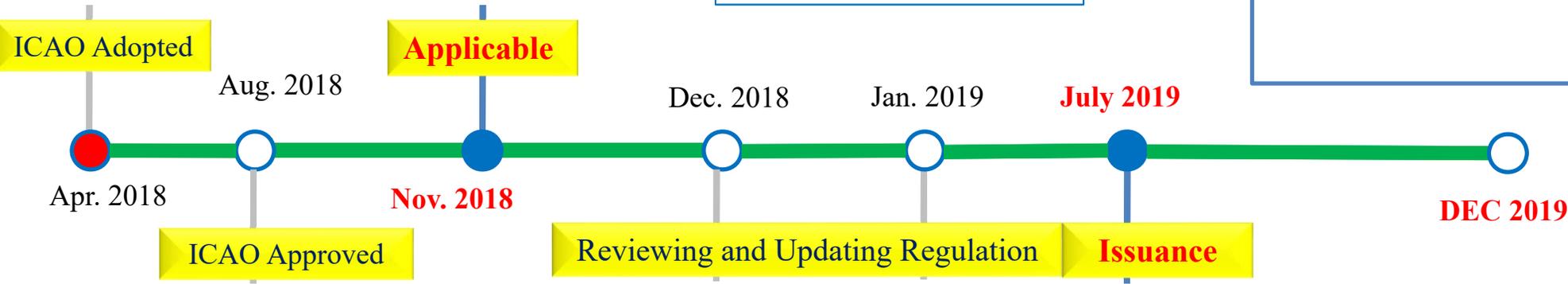
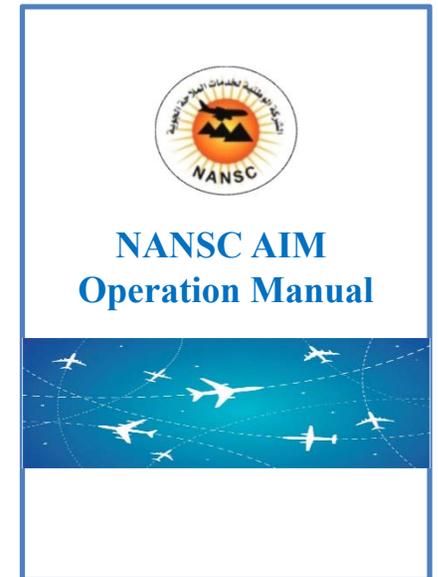
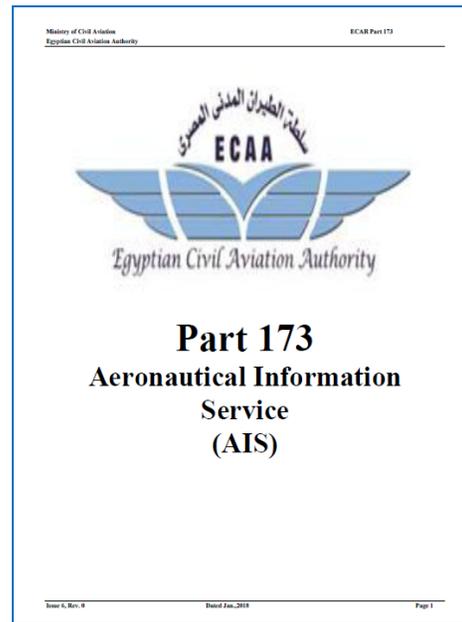
National Approach

WHERE ARE WE?

AIM SG/5, Cairo, Egypt, 22-24 January 2019



Look into National Regulations....





Implementation Status

The 16th Edition of Annex 15 and the PANS AIM



| | Status | | |
|--------------------------------------|--|-------------------------------|--|
| | Updating AIS/AIM National Regulations | Identification of differences | Coordination with the national AISP |
| 16 th Edition of ANNEX 15 | ECAR 173 (Draft version) is Reviewed and updated according to ANNEX 15 Amendment and be published by July 2019 | No Differences | AIS National Committee for reviewing, updating the operational procedures to be completed once the amended ECAR 173 became effective and published |
| ICAO Doc. 10066 PANS-AIM | | | |



Challenges



B0-DATM

- Threatening interoperability of exchanges incase AIP Data Set sections (**Replacing most of Paper based AIP Sections**) are provided to Non automated parties.
- Absence of the new AIP specimen as a guidance in producing a unified format.
- eAIP (P-11)**: Software Provider insolvent issue.
- P-19**: Interoperability with different systems.
- P-13, P-14**: Financial issue.
- P-16**: Comprehensive training is required for operational personnel



Thank You !

Presented By
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ANS Safety Oversight Inspector