International Civil Aviation Organization

AIR NAVIGATION SYSTEMS IMPLEMENTATION GROUP

Third Meeting (ANSIG/3) (Cairo, Egypt, 2 – 4 July 2018)

Agenda Item 4.2.1: MID Region ASBU Implementation

STATUS OF IMPLEMENTATION OF PIA 2 BLOCK 0 MODULES (B0-DATM, B0-FICE AND B0-AMET)

(Presented by the Secretariat)

SUMMARY

This paper presents the status of implementation of the PIA 2 Block 0 Modules (B0-DATM, B0-FICE and B0-AMET) in the MID Region and seeks ways and means to expedite the implementation in order to meet the agreed performance targets.

Action by the meeting is at paragraph 3.

REFERENCES

- MID Air Navigation Strategy (MID Doc 002)
- MID eANP Volume III

1. Introduction

1.1 Performance Improvement Area 2 (Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management) includes three (3) Modules in Block 0: B0-DATM, B0-FICE and B-AMET.

2. DISCUSSION

B0-DATM

2.1 B0-DATM, as a priority 1 Module, is the initial introduction of digital processing and management of information, through AIS/AIM implementation, use of aeronautical information exchange model (AIXM), migration to eAIP and better quality and availability of data. Performance Indicators/Supporting Metrics, Targets and status of the implementation of B0-DATM are detailed in **Appendix A**.

Implementation Challenges:

- Effective QMS implementation in some States
- AIXM implementation and eAIP
- Data exchange using AIXM
- Lack of proper study/planning for the implementation of AIM systems and proper involvement of relevant Stakeholders (ATM, PANS OPS, etc.), in order to ensure all Stakeholders' needs and interoperability issues

- Funding for new AIM systems (financial issues)
- Training of AIS/AIM personnel (competent human resources)

B0-FICE

2.2 The objective of B0-FICE (Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration), is to improve coordination between air traffic service units (ATSUs) by using ATS Inter-facility Data Communication (AIDC) and/or on-line data interchange (OLDI). The transfer of communication in a data link environment improves the efficiency of this process.

Implementation Challenges

- 2.3 The CNS SG/8 meeting analyzed the replies to the Questionnaire sent to the States' AIDC/OLDI focal points, and identified the following challenges impeding the implementation:
 - adjacent State(s) not ready to implement AIDC/OLDI;
 - no response from adjacent State(s);
 - ATM system does not support AIDC/OLDI as reported by two (2) States; and
 - technical problems;
 - No common protocol supported by all ATM systems in the MID Region (Incompatibilities issues)
- 2.4 Based on above, the CNS SG/8 meeting agreed to the following actions/recommendations:
 - ICAO MID Office to coordinate with Paris Office regarding Beirut Nicosia and Cairo– Nicosia OLDI connections:
 - States that do not have AIDC/OLDI capability are urged to plan for an upgrade of their systems as soon as possible; and
 - States that need assistance (Jordan, Lebanon and Yemen) are invited to visit Muscat Centre (including Simulator) on 3-4 September 2018, as Oman offered to share their AIDC/OLDI experience with other States;
- 2.5 The ATM SG/4 agreed that the applicability area should be defined in consultation with the ATM chairpersons. The AIDC/OLDI Applicability Table at **Appendix B** is proposed to be used for the definition of the applicability area of AIDC/OLDI implementation. It is also proposed to include a requirement for AIDC/OLDI implementation (priority 1 interconnections) in the MID eANP Volume II Part IV-ATM, under Specific Regional Requirements.
- 2.6 Based on the above, the following Draft Conclusion is proposed:

DRAFT CONCLUSION 3/X: PFA TO THE MID eANP VOLUMES II- ATM PART

That, a Proposal for Amendment to the MID eANP Volumes II – Part IV-ATM related to the requirement for AIDC/OLDI implementation (priority 1 interconnections) be processed in accordance with the standard procedure of amendment.

B0-AMET

2.7 B0-AMET, as a priority 1 Module, contains global, regional and local meteorological information. This information includes: a) forecasts provided by world area forecast centres (WAFC), volcanic ash advisory centres (VAAC) and tropical cyclone advisory centres (TCAC); b) aerodrome warnings to give concise information of meteorological conditions that could adversely affect all aircraft at an aerodrome including wind shear; and c) SIGMETs to provide information on occurrence or expected occurrence of specific en-route weather phenomena which may affect the safety of aircraft operations and other operational meteorological (OPMET) information, including METAR/SPECI and TAF, to provide routine and special observations and forecasts of meteorological conditions occurring or expected to

occur at the aerodrome. This module includes elements which should be viewed as a subset of all available meteorological information that can be used to support enhanced operational efficiency and safety. Performance Indicators/Supporting Metrics, Targets and status of the implementation of B0-AMET are detailed in **Appendix C**.

Implementation challenges

- Effective QMS implementation in some States
- Administrative (internal issues or situated in conflict zone)
- Funding for new MET systems (e.g. wind shear systems)
- Training of MET personnel (competent human resources)
- Exchange of MET information between States and MID ROC; in particular determining necessary OPMET information to be exchanged with the MID ROC to satisfy States' operational needs

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) review and update the status of implementation of B0-DATM, B0-FICE and B0-AMET;
 - b) identify the difficulties faced in the implementation of B0-DATM, B0-FICE and B0-AMET;
 - c) review and amend, as deem necessary, the AIDC/OLDI Applicability Table at **Appendix B**; and
 - d) endorse, as appropriate, the Draft Conclusion at Para. 2.6.

| Elements | Applicability | hrough Digital Aeronautical Information Mo Performance Indicators/Supporting | Targets | Status | Remarks |
|-----------------------|----------------|---|----------------------------|---------------------------------|---|
| Diemenes | ripplicability | Metrics | Tui gets | Status | Kemarks |
| National AIM | All States | Indicator: % of States that have National | 90% by Dec. 2018 | 80% | AIM Sub-Group |
| Implementation | | AIM Implementation Plan/Roadmap | | (12 States) | |
| Plan/Roadmap | | Supporting Metric: Number of States that | | | |
| | | have National AIM Implementation | | | |
| A TX/A (| A 11 G | Plan/Roadmap | 000/1 D 2010 | 52 470 / | D + C II + AND AND |
| AIXM | All States | Indicator: % of States that have implemented an AIXM-based AIS | 80% by Dec. 2018 | 5347% | Data Collection: MID eANP Table B0-DATM 3-1 |
| | | implemented an AIXM-based AIS database | | (87 States) | AIM Sub-Group |
| | | database | | | Alwi Sub-Gloup |
| | | Supporting Metric: Number of States that | | | |
| | | have implemented an AIXM-based AIS | | | |
| | | database | | | |
| eAIP | All States | Indicator: % of States that have | 80% by Dec. 2020 | 33% | Data Collection: MID eANP |
| | | implemented an IAID driven AIP | | (5 States) | Table B0-DATM 3-1 |
| | | Production (eAIP) | | | AIM Sub-Group |
| | | Comment of Matrice November of Chapter 41 at | | | |
| | | Supporting Metric: Number of States that have implemented an IAID driven AIP | | | |
| | | Production (eAIP) | | | |
| QMS | All States | Indicator: % of States that have | 90% by Dec. 2018 | 60% | Data Collection: MID eANP |
| | | implemented QMS for AIS/AIM | | (9 States) | Table B0-DATM 3-2 |
| | | • | | , | AIM Sub-Group |
| | | Supporting Metric: Number of States that | | | |
| | | have implemented QMS for AIS/AIM | | | |
| WGS-84 | All States | Indicator: % of States that have | Horizontal: | Horizontal: 9387% | Data Collection: MID eANP |
| | | implemented WGS-84 for horizontal plan | 100% by Dec. 2018 | (1413 States) | Table B0-DATM 3-3 |
| | | (ENR, Terminal, AD) Supporting Metric: Number of States that | Vertical: 90% by Dec. 2018 | Vertical: 8073% | AIM Sub-Group |
| | | have implemented WGS-84 for horizontal | 9070 by Dec. 2018 | $(\frac{12}{1} \text{ States})$ | |
| | | plan (ENR, Terminal, AD) | | (1211 States) | |
| | | [] [] [] [] [] [] [] [] [] [] | | | |
| | | Indicator: % of States that have | | | |
| | | implemented WGS-84 Geoid Undulation | | | |

| | | Supporting Metric: Number of States that | | | |
|---------------------------------|------------|---|---------------------|------------------------|---|
| | | have implemented WGS-84 Geoid | | | |
| | | Undulation | | | |
| Agreement with data originators | All States | Indicator: % of States that have signed Service Level Agreements (SLA) with at least 50% of their AIS data originators | 60% by Dec. 2020 | TBD | Data Collection: MID eANP Table B0-DATM 3-2 AIM Sub-Group |
| | | Supporting Metric: Number of States that have signed Service Level Agreements (SLA) with at least 50% of their AIS data originators | | | |
| eTOD | All States | Indicator: % of States that have | Area 1 : | Area 1: | Data Collection: AIM Sub- |
| | | implemented required Terrain | Terrain: | Terrain: | Group |
| | | datasets | 70% by Dec. 2018 | 4 7% | 1 |
| | | Supporting Metric: Number of | Obstacles: | (7 States) | |
| | | States that have implemented | 60% by Dec. 2018 | Obstacles: | |
| | | required Terrain datasets | Area 4: | 40% | |
| | | | Terrain: | (6 States) | |
| | | Indicator: % of States that have | 100% by Dec. 2018 | Area 4: | |
| | | implemented required Obstacle | Obstacles: | Terrain: | |
| | | datasets | 100% by Dec. 2018 | 89% | |
| | | Supporting Metric: Number of States that | | (8 States) | |
| | | have implemented required Obstacle | | Obstacles: | |
| | | datasets | | 78% | |
| | | | | (7 States) | |
| Digital NOTAM* | All States | Indicator: % of States that have included | 90% by Dec. 2020 | 80% | |
| | | the implementation of Digital NOTAM | | (12 States) | |
| | | into their National Plan for the transition | | | |
| | | from AIS to AIM | | | |
| | | Supporting Metric: Number of States that | | | |
| | | have included the implementation of | | | |
| | | Digital NOTAM into their National Plan | | | |
| | | for the transition from AIS to AIM | | | |

B0-DATM Enablers/Tables

In order to assist States in the planning for the transition from AIS to AIM in an expeditious manner, the following Tables, which provide more details than the standard ANRF, should be used:

- 1- **Table B0-DATM 3-1** sets out the requirements for the Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID). It reflects the transition from the current product centric AIS to data centric AIM. For the future digital environment it is important that the authoritative databases are clearly designated and such designation must be published for the users. This is achieved with the concept of the Integrated Aeronautical Information Database (IAID), a single access point for one or more authoritative databases (AISAIP, Terrain, Obstacles, AMDB, etc) for which the State is responsible. This Table will be used for the monitoring of the Key Performance Indicators (KPIs) related to elements Nr. 1 and 2 of the Module B0-DATM.
- 2- **Table B0-DATM 3-2** sets out the requirements for aeronautical data quality. It will be used for the monitoring of the Key Performance Indicators (KPIs) related to the element Nr. 3 of the Module B0-DATM.
- 3- **Table B0-DATM 3-3** sets out the requirements for the implementation of the World Geodetic System 1984 (WGS-84). The requirement to use a common geodetic system remains essential to facilitate the exchange of data between different systems. The expression of all coordinates in the AIP and charts using WGS-84 is an important first step for the transition to AIM. This Table will be used for the monitoring of the Key Performance Indicators (KPIs) related to the element Nr. 4 of the Module B0-DATM.
- 4- **Table B0-DATM 3-4-1** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 1 and Area 4. It will be used for the monitoring of the Key Performance Indicators (KPIs) related to the element Nr. 5 of the Module B0-DATM.
- 5- **Table B0-DATM 3-4-2** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 2. It will be used for the monitoring of the Key Performance Indicators (KPIs) related to the element Nr. 5 of the Module B0-DATM.
- 6- **Table B0-DATM 3-4-3** sets out the requirements for the provision of Terrain and Obstacle data sets for Area 3 and implementation of Airport Mapping Databases (AMDB). It will be used for the monitoring of the Key Performance Indicators (KPIs) related to the element Nr. 5 of the Module B0-DATM.

Table B0-DATM 3-1

Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)

EXPLANATION OF THE TABLE

- Name of the State or territory for which the provision of AIS/AIM products and services based on the IAID is required.
- 2 Requirement for the implementation and designation of the authoritative IAID, shown by:
 - FI Fully Implemented
 - PI Partially Implemented
 - NI Not Implemented
 - Note 1 The IAID of a State is a single access point for one or more databases (AISAIP, Terrain, Obstacles, AMDB, etc). The minimum set of databases which should be integrated is defined in Annex 15.
 - Note 2 Information providing detail of "PI" should be given in the Remarks column (the implemented components of the IAID).
 - Note 3-2 The information related to the designation of the authoritative IAID should be published in the AIP (GEN 3.1)
- Requirement for an IAID driven AIP production, shown by:
 - FI Fully Implemented (eAIP: Text, Tables and Charts)
 - PI Partially Implemented
 - NI Not Implemented
 - Note 4–3 AIP production includes, production of AIP, AIP Amendments and AIP Supplements
 - Note 4 Charts' GIS-based database should be interoperable with AIP database
- 4 Requirement for an IAID driven NOTAM production, shown by:
 - FC Fully Compliant
 - NC Not Compliant
- 5 Requirement for an IAID driven SNOWTAM productionprocessing, shown by:
 - FC-FI Fully Implemented Compliant
 - NC-NI Not Implemented compliant
- 6 Requirement for an IAID driven PIB production, shown by:
 - FC Fully Compliant
 - PC Partially Compliant
 - NC Not Compliant
- 7 Requirement for Charting systems to be interoperable with the IAID, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- Requirement for Procedure design systems to be interoperable with the IAID, shown by:
 - FI Fully Implemented

- PI Partially Implemented
- NI Not Implemented
- Note 5 full implementation includes the use of the IAID for the design of the procedures and for the storage of the encoded procedures in the IAID
- 98 Requirement for ATS systems to be interoperable with the IAID, shown by:
 - FI Fully Implemented
 - PI Partially Implemented
 - NI Not Implemented
- Action Plan short description of the State's Action Plan with regard to the provision of AIM products and services based on the IAID, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.
- H10 Remarks additional information, including detail of "PC", "NC", "PI" and "NI", as appropriate.

Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)

TABLE B0-DATM-3-1

| State | IAID | AIP | NOTAM | SNOWTAM | PIB | Charting | Procedure Design | ATS | Action Plan | Remarks |
|------------------------------------|------------------|----------|------------------|------------------|------------------------|---------------|---------------------|-----------|-----------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | <u>87</u> | <u>98</u> | <u>109</u> | <u> 1110</u> |
| BAHARAIN | PI FI | FI | FC | FC FI | FC | FC | PI | FI | National AIM Roadmap- 20152016 | AIXM: 4.5-5.1 by end 2015 |
| EGYPT | FI | PI | NC FC | NC FI | FC | NC | NI | PI | National AIM Roadmap- 20152017 | AIXM: 5.1 3 and 7 by 2015, 4.9 by 20162018 |
| IRAN, ISLAMIC REPUBLIC OF | NI | NI | NC | N <u>I</u> € | NC | NC | NI | NI | National AIM Roadmap- 20152016 | AIXM: NI Separate semi-automated NOTAM/SNOWTAM system is operative |
| IRAQ | NI | NI | NC | NCNI | NC | NC | NI | NI | National AIM Roadmap- 20142015 | AIXM: NI |
| JORDAN | <u>PINI</u> | NI | FC | FC NI | FC | PC | NI | NI | National AIM Roadmap- 20142017 | AIXM: database through EAD |
| KUWAIT | <u>PINI</u> | NI | FC | NCNI | PC | NC | NI | NI | National AIM Roadmap- 20152016 | AIXM: NI (5.1 in progress) |
| LEBANON | NI | FI NI | NC | NCNI | NC | NC | NI | NI | National AIM Roadmap- 20142016 | AIXM: 4.5 |
| LIBYA | NI | NI | NC | NC NI | NC | NC | NI | NI | No Action Plan | AIXM: NI |
| OMAN | NI | NI | NC | NCNI | NC | NC | NI | NI | National AIM Roadmap- 20142016 | AIXM: NI (5.1 in progress) |
| QATAR | <u>PINI</u> | PI | FC | PC NI | FC | PC | PI | NI | National AIM Roadmap- 20152016 | AIXM: 5.1 Q4/2017 – Data Integration (AIP, Terrain, Obstacle, Procedure Design and AMDB datasets) |
| SAUDI ARABIA | FI | FI | FC NC | FC NI | <u>FCP</u> <u>C</u> | FC | FI | FI | National AIM Roadmap- 20142017 | AIXM: 4.5 |
| SUDAN | <u>PINI</u> | NI | FC | <u>NI</u> NC | FC | PC | PI | PI | National AIM Roadmap- 20152017 | 1.AIS DB integrated with MET & ATM 2. Contract Signed for eAIP, AIXM connected with Charting SYS. 7. Contract signed. 8. Ongoing project AIXM: NI (5.1 in progress) AIS Automation Project is |

| State | IAID | AIP | NOTAM | SNOWTAM | PIB | Charting | Procedure Design | ATS | Action Plan | Remarks |
|----------------------------|--------------|-----|-------|------------------|-----|----------|---------------------|-----------|-----------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 7 | <u>98</u> | 10 9 | 11 10 |
| | | | | | | | | | | ongoing |
| SYRIAN ARAB REPUBLIC | NI | NI | NC | NC NI | NC | NC | NI | NI | No Action Plan | AIXM: NI |
| UNITED ARAB EMIRATES | PINI PINI | FI | NC | NC NI | PC | PC | NI | PI | National AIM Roadmap- 20142017 | AIXM: 5.1 AMDB: 2016-2021; PIB: AVBL at OMAA, OMDB, OMDW, OMFJ, other ADs 2020; Charting system upgrade is planned for 2017; Procedure Design 2020; ATS: ACC AVBL, ADs 2020 Digital NOTAM: 2016-2021 AMDB: 2016 2021 eTOD integration: 2016 PIB: AVBL at OMMA, OMDB, OMDW; other ADs 2020 Charing: 2016 Procedure Design 2020 ATS: ACC AVBL, ADs 2020 Digital NOTAM 2016 2021 |
| YEMEN | NI | NI | NC | NCNI | NC | NC | NI | NI | No Action Plan | AIXM: NI |

Table B0-DATM-3-2

Aeronautical Data Quality

EXPLANATION OF THE TABLE

- 1 Name of the State or territory.
- 2 Compliance with the requirement for implementation of QMS for Aeronautical Information Services including safety and security objectives, shown by:
 - FC Fully compliant
 - NC Not compliant
- Compliance with the requirement for the establishment of formal arrangements with approved data originators concerning aeronautical data quality, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 4 Implementation of digital data exchange with originators, shown by:
 - FI Implemented
 - PI Partially Implemented
 - NI Not implemented
 - Note 1 Information providing detail of "PI" and "NI" should be given in the Remarks column (percentage of implementation).
- 5 Compliance with the requirement for metadata, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 6 Compliance with the requirements related to aeronautical data quality monitoring (accuracy, resolution, timeliness, completeness), shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 7 Compliance with the requirements related to aeronautical data integrity monitoring, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 8 Compliance with the requirements related to the AIRAC adherence, shown by:
 - FC Fully compliant
 - NC Not compliant
- Action Plan short description of the State's Action Plan with regard to aeronautical data quality requirements implementation, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.
- Remarks additional information, including detail of "PC", "NC", "PI" and "NI", as appropriate.

TABLE B0-DATM-3-2 Aeronautical Data Quality

| State | QMS | Establishment of formal agreements | Digital data exchange with originators | Metadata | Data quality monitoring | Data integrity monitoring | AIRAC adherence | Action Plan | Remarks |
|---------------------------------|-----|--|---|------------------|-------------------------------|---------------------------------|-----------------|-----------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| BAHARAIN | FC | FC PC | PI | PC FC | PC FC | PC FC | FC | National AIM Roadmap- 20152016 | |
| EGYPT | FC | PC | PI | FC | PC | PC | FC | National AIM Roadmap- 20152017 | 3, 4, 6 and 7 by 20162018 |
| IRAN, ISLAMIC REPUBLIC OF | FC | PC | NI | NC | NCFC | NCFC | FC | National AIM Roadmap- 20152016 | |
| IRAQ | NC | NC | NI | NC | NC | NC | FC | National AIM Roadmap- 20142015 | |
| JORDAN | FC | NCPC | NI | PC FC | FC | FC | FC | National AIM Roadmap- 20142017 | |
| KUWAIT | FC | PC | NI | NC | NC | NC | FC | National AIM Roadmap- 20152016 | |
| LEBANON | NC | NCPC | NI | NCPC | NCPC | NCPC | FC | National AIM Roadmap- 20142016 | |
| LIBYA | NC | NC | NI | NC | NC | NC | NC | No Action Plan | |
| OMAN | NC | NC | NI | NC | NC FC | NC FC | FC | National AIM Roadmap- 20142016 | |
| QATAR | FC | FC PC | PI | FC | PC | PC | FC | National AIM Roadmap- 20152016 | SLA with MIL in progress |
| SAUDI ARABIA | FC | PC FC | NI | FC | FC | FC | FC | National AIM Roadmap- 20142017 | SLA will be completed end 2015 |
| SUDAN | FC | FC | NI | NC | FC | FC | FC | National AIM Roadmap- 20152017 | |
| SYRIAN ARAB REPUBLIC | NC | NC | NI | NC | NC | NC | NC | No Action Plan | |
| UNITED ARAB EMIRATES | FC | PC | NI <u>PI</u> | FC | FC | FC | FC | National AIM Roadmap- 20142017 | SLA initiated with MIL-ongoing Digital data exchange with originator: planned (2016-2021) |

| | | | | | | | | | CAAP 56 details of agreements |
|-------|----|----|----|----|----|----|----|----------------|-------------------------------|
| YEMEN | NC | NC | NI | PC | NC | NC | NC | No Action Plan | |

Table B0-DATM-3-3

World Geodetic System-1984 (WGS-84)

EXPLANATION OF THE TABLE

- 1 Name of the State or territory for which implementation of WGS-84 is required.
- 2 Compliance with the requirements for implementation of WGS-84 for FIR and Enroute points, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- Compliance with the requirements for implementation of WGS-84 for Terminal Areas (arrival, departure and instrument approach procedures), shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- Compliance with the requirements for implementation of WGS-84 for Aerodrome, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 5 Compliance with the requirements for implementation of Geoid Undulation, shown by:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- Action Plan short description of the State's Action Plan with regard to WGS-84 implementation, especially for items with a "PC", "PI", "NC" or "NI" status, including planned date(s) of full compliance, as appropriate.
- Remarks additional information, including detail of "PC" and "NC", as appropriate.

TABLE B0-DATM-3-3 World Geodetic System-1984 (WGS-84)

| | FIR/ENR | Terminal | AD | GUND | Action Plan | Remarks |
|---------------------------|------------------|------------------|------------------|------------------|-------------------------------|---|
| State | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| BAHARAIN | FC | FC | FC | FC | | Plan to be updated by 2016 |
| EGYPT | FC | FC | FC | FC | | |
| IRAN, ISLAMIC REPUBLIC OF | FC | FC | FC | FC | | |
| IRAQ | PC FC | PC FC | PC FC | NC | National AIM Roadmap-20142015 | |
| JORDAN | FC | FC | FC | FC | | |
| KUWAIT | FC | FC | FC | FC | | Last survey FEB 2015 |
| LEBANON | FC | FC | FC | NC FC | National AIM Roadmap 2014 | |
| LIBYA | PC | PC | NC | NC | No Action Plan | |
| OMAN | FC | FC | FC | FC | | |
| QATAR | FC | FC | FC | FC | | Annual Validation/Survey Updates planned up to 2017 |
| SAUDI ARABIA | FC | FC | FC | FC | | |
| SUDAN | FC | FC | FC | FC | | |
| SYRIAN ARAB | FC | FC | FC | NC | No Action Plan | |
| REPUBLIC | | | | | | |
| UNITED ARAB EMIRATES | FC | FC | FC | FC | | |
| YEMEN | FC | FC | FC | FC | | |

Table B0-DATM-3-4-1

Provision of Terrain and Obstacle data sets for Areas 1 and 4

EXPLANATION OF THE TABLE

Column

- Name of the State or territory for which Terrain and Obstacle data sets for Areas 1 and 4 are required.
- 2 Compliance with requirement for the provision of Terrain data sets for Area 1, shown by:

FC – Fully Compliant

PC – Partially Compliant

NC – Not Compliant

Compliance with requirement for the provision of Terrain data sets for Area 4, shown by:

FC – Fully Compliant

PC – Partially Compliant

NC – Not Compliant

N/A – Not Applicable

4 Compliance with requirement for the provision of Obstacle data sets for Area 1, shown by:

FC – Fully Compliant

PC – Partially Compliant

NC – Not Compliant

5 Compliance with requirement for the provision of Obstacle data sets for Area 4, shown by:

FC – Fully Compliant

PC – Partially Compliant

NC – Not Compliant

N/A – Not Applicable

- Action plan short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Areas 1 and 4, especially for items with a "PC" or "NC" status, including planned date(s) of full compliance, as appropriate.
- Remarks— additional information, including detail of "PC" and "NC", as appropriate.

TABLE B0-DATM-3-4-1

Provision of Terrain and Obstacle data sets for Areas 1 and 4

| | Terrain (| data sets | Obstacle | data sets | Action Plan | Remarks |
|-------------|------------------|------------------|------------------|------------------|-------------------------------|-----------------------------------|
| State | Area 1 | Area 4 | Area 1 | Area 4 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| BAHARAIN | FC | FC | FC | FC | | |
| EGYPT | FC | FC | PC NC | PC NC | National AIM Roadmap-20152017 | 4 and 5 (HECA & HESH): 2019 |
| IRAN, | FC | FC | FC | FC | | |
| ISLAMIC | | | | | | |
| REPUBLIC OF | | | | | | |
| IRAQ | NC | NC | NC | NC | National AIM Roadmap-20142015 | |
| JORDAN | NC PC | NC FC | NCPC | NC FC | National AIM Roadmap-20142017 | |
| KUWAIT | FC | FC | FC | FC | | |
| LEBANON | NC | N/A | NC | N/A | National AIM Roadmap-20142016 | |
| LIBYA | NC | N/A | NC | N/A | No Action Plan | |
| OMAN | NC | N/A | NC | N/A | National AIM Roadmap-20142016 | |
| QATAR | FC | FC | FC | FC | | |
| SAUDI | FC | FC | FC | FC | | |
| ARABIA | | | | | | |
| SUDAN | NC | N/A | NC | N/A | National AIM Roadmap-20152017 | |
| SYRIAN ARAB | NC | N/A | NC | N/A | No Action Plan | |
| REPUBLIC | | | | | | |
| UNITED ARAB | PC | FC | PC | FC | National AIM Roadmap-20142017 | A recurrent data acquisition eTOD |
| EMIRATES | | | | | | Area 1 is planned |
| YEMEN | NC | N/A | NC | N/A | No Action Plan | |

. | |

1

Table B0-DATM-3-4-2

Provision of Terrain and Obstacle data sets for Area 2

EXPLANATION OF THE TABLE

Column

- Name of the State or territory for which Terrain and Obstacle data sets for Area 2 are required.
- 2 Compliance with requirement for the provision of Terrain data sets for Area 2a, shown by:

FC – Fully Compliant

PC – Partially Compliant

NC – Not Compliant

Compliance with requirement for the provision of Terrain data sets for Area 2b, shown by:

FI – Fully Implemented

PI – Partially Implemented

NI – Not implemented

N/A – Not Applicable

4 Compliance with requirement for the provision of Terrain data sets for Area 2c, shown by:

FI – Fully Implemented

PI – Partially Implemented

NI – Not Implemented

N/A – Not Applicable

5 Compliance with requirement for the provision of Terrain data sets for Area 2d, shown by:

FI - Fully Implemented

PI – Partially Implemented

NI – Not Implemented

N/A – Not Applicable

6 Compliance with requirement for the provision of Obstacle data sets for Area 2a, shown by:

FC – Fully Compliant

PC - Partially Compliant

NC – Not Compliant

7 Compliance with requirement for the provision of Obstacle data sets for Area 2b, shown by:

FI - Fully Implemented

PI – Partially Implemented

NI – Not implemented

N/A – Not Applicable

- 8 Compliance with requirement for the provision of Obstacle data sets for Area 2c, shown by:
 - FI Fully Implemented

- PI Partially Implemented
- NI Not Implemented
- N/A Not Applicable
- 9 Compliance with requirement for the provision of Obstacle data sets for Area 2d, shown by:
 - FI Fully Implemented
 - PI Partially Implemented
 - NI Not Implemented
 - N/A Not Applicable
- Action plan short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Area 2, especially for items with a "PC", "PI", "NC" or "NI" status.
- 11 Remarks— additional information, including detail of "PC", "PI" and "NC", "NI", as appropriate.

TABLE B0-DATM-3-4-2

Provision of Terrain and Obstacle data sets for Area 2

| | | Terrain | data sets | | | Obstacle | data sets | | Action Plan | Remarks |
|------------------------------------|------------------|--------------|--------------|-------------|------------------|--------------|------------------|------------------|-------------------------------|--|
| State | Area 2a | Area 2b | Area 2c | Area 2d | Area 2a | Area 2b | Area 2c | Area 2d | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| BAHARAIN | NC | NI | NI | NI | NC FC | NIFI | NI FI | NI FI | National AIM Roadmap-20152016 | |
| EGYPT | PC | PI | PI | PI | NC | NI | NI | NI | National AIM Roadmap-20152017 | To be completed by 2020 |
| IRAN, ISLAMIC REPUBLIC OF | NC FC | NIFI | NI <u>FI</u> | NIFI | NC FC | NIFI | NI <u>FI</u> | NIFI | National AIM Roadmap 2015 | |
| IRAQ | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20142015 | |
| JORDAN | NCPC | NI <u>PI</u> | NI <u>PI</u> | NI | NCPC | NI <u>PI</u> | NI <u>PI</u> | NI | National AIM Roadmap-20142017 | Area 2a, 2b and 2c implemented for OJAI RWY 26R/08L |
| KUWAIT | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20152016 | |
| LEBANON | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20142016 | |
| LIBYA | NC | NI | NI | NI | NC | NI | NI | NI | No Action Plan | |
| OMAN | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20142016 | |
| QATAR | FC | FI | FI | FI | FC | FI | FI | FI | | |
| SAUDI ARABIA | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20142017 | |
| SUDAN | NC | NI | NI | NI | NC | NI | NI | NI | National AIM Roadmap-20152017 | |
| SYRIAN ARAB REPUBLIC | NC | NI | NI | NI | NC | NI | NI | NI | No Action Plan | |
| UNITED ARAB EMIRATES | NC | NI | NI | <u>P</u> NI | NCFC | NIFI | NI <u>FI</u> | NI <u>PI</u> | National AIM Roadmap-20142017 | eTOD Area 2 (all sub-areas) survey & data acquisition through international airport service providers |
| YEMEN | NC | NI | NI | NI | NC | NI | NI | NI | No Action Plan | |

Table B0-DATM-3-4-3

Provision of Terrain and Obstacle data sets for Area 3 and Airport Mapping Databases (AMDB)

EXPLANATION OF THE TABLE

Column

- Name of the State or territory for which Terrain and Obstacle data sets for Area and AMDB are required.
- 2 Compliance with requirement for the provision of Terrain data sets for Area 3, shown by:

FI – Fully Implemented

PI – Partially Implemented

NI – Not Implemented

N/A – Not Applicable

Compliance with requirement for the provision of Obstacle data sets for Area 3, shown by:

FI – Fully Implemented

PI – Partially Implemented

NI – Not Implemented

N/A – Not Applicable

- 4 Implementation of AMDB, shown by:
 - FI Fully Implemented

PI – Partially Implemented

NI – Not Implemented

N/A – Not Applicable

- Action plan short description of the State's Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacle data sets for Area 3 and AMDB implementation, especially for items with a "PC", "PI", "NC" or "NI" status.
- Remarks— additional information, including detail of "PI" and "NI", as appropriate.

TABLE B0-DATM-3-4-3

Provision of Terrain and Obstacle data sets for Area 3 and Airport Mapping Databases (AMDB)

| | Terrain data sets (Area 3) | Obstacle data sets (Area 3) | AMDB | Action Plan | Remarks |
|------------------------------|----------------------------------|-----------------------------|------|-------------------------------|--|
| State | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| BAHARAIN | NI | NI FI | NI | National AIM Roadmap-20152016 | |
| EGYPT | NI | NI | NI | National AIM Roadmap-20152017 | A3: 2019; AMDB: 2020 |
| IRAN, ISLAMIC REPUBLIC OF | NI FI | NI FI | NI | National AIM Roadmap-20152016 | |
| IRAQ | NI | NI | NI | National AIM Roadmap-20142015 | |
| JORDAN | NIPI | NIPI | NI | National AIM Roadmap-20142017 | Area 3 implemented for OJAI RWY 26R/08L |
| KUWAIT | FI | FI | NI | National AIM Roadmap-20152016 | |
| LEBANON | NI | NI | NI | National AIM Roadmap-20142016 | |
| LIBYA | NI | NI | NI | No Action Plan | |
| OMAN | NI | NI | NI | National AIM Roadmap-20142016 | |
| QATAR | NI <u>FI</u> | <u>FIPI</u> | NIPI | National AIM Roadmap-20152016 | Q4/2017 AMDB implementation AMDB to be implemented last quarter of 2015 |
| SAUDI ARABIA | NI | NI | NI | National AIM Roadmap-20142017 | |
| SUDAN | NI | NI | NI | National AIM Roadmap-20152017 | |
| SYRIAN ARAB REPUBLIC | NI | NI | NI | No Action Plan | |
| UNITED ARAB EMIRATES | NI FI | NI FI | NI | National AIM Roadmap-20142017 | AMDB technical infrastructure (metadata, model) implemented in IAID, pending compatibility analysis AIXM 5.1 with revised AMDB model (RTCA DO-272D) when released. |
| YEMEN | NI | NI | NI | No Action Plan | |

| B0 – FICE: Incred | ased Interoperal | bility, Efficiency and Capacity through Ground- | Ground Integration | | |
|---|--|--|---|--|---|
| Elements | Applicability | Performance Indicators/Supporting Metrics | Targets | Status | Remarks |
| AMHS capability | All States | Indicator: % of States with AMHS capability Supporting metric: Number of States with AMHS capability | 70% of States with AMHS capability by Dec. 2017 | 73% (11 States) | Data Collection: MID eANP Table B0-FICE CNS Sub-Group |
| AMHS implementation /interconnection | All States | Indicator: % of States with AMHS implemented (interconnected with other States AMHS) Supporting metric: Number of States with AMHS implemented (interconnections with other States AMHS) | 60% of States with AMHS interconnected by Dec. 2017 | 60 <mark>67</mark> % (9 <mark>10</mark> States) | Data Collection: MID eANP Table B0-FICE CNS Sub-Group |
| Implementation of AIDC/OLDI between adjacent ACCs | As per the AIDC/OLDI Applicability TableAll ACCs | Indicator: % of priority 1 FIRs within which all applicable ACCs have implemented at least one interface to use AIDC/OLDI Interconnection have been implemented with neighboring ACCs Supporting metric: Number of AIDC/OLDI interconnections implemented between adjacent ACCs | <u>6</u> 70% by Dec. 20 <u>20</u> 17 | 4033% (65 States) 22% (9 connections) | Data Collection: MID eANP Table B0-FICE CNS Sub-Group |

TABLE B0-FICE EXPLANATION OF THE TABLE

- 1 Name of the State
- 2,3,4 Status of AMHS Capability and Interconnection and AIDC/OLDI Capability, where:
 - Y Fully Implemented
 - N Not Implemented
 - 5 <u>Status Number of required AIDC/OLDI Interconnections mplementation, where:</u>
 - Y If AIDC/OLDI is implemented at least with one neighbouring ACC N—Not Implemented
 - Number of implemented AIDC/OLDI InterconnectionAction plan short description of the State's Action Plan with regard to the implementation of B0-FICE.
 - 7 Remarks

| State | AMHS Capabilit y | AMHS Interconnectio n | AIDC/OLD I Capability | Required AIDC/OLDI Interconnectio nsImplementati on | Action PlanAIDC /OLDI Implemen tation | Remarks |
|-----------------|------------------------|-----------------------------|--------------------------|---|---------------------------------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 <u>*</u> | 6 | 7 |
| Bahrain | Y | Y | Y | <u>5</u> ¥ | <u>1</u> | connection with ABU Dhabi |
| Egypt | Y | Y | Y | <u>4</u> ¥ | 1 | |
| Iran | N | N | Y | <u>4</u> N | <u>0</u> | Contract signed for AMHS |
| Iraq | N | N | N | <u>2</u> N | 0 | Thales Topsky ATM system |
| Jordan | Y | Y | Y | <u>2</u> N | 0 | |
| Kuwait | Y | Y | Y | <u>2</u> N | 0 | |
| Lebanon | Y | Y | Y | <u>1</u> ¥ | <u>0</u> | |
| Libya | Y | N | Y | <u>0</u> N | <u>0</u> | OContract signed for AMHS |
| Oman | Y | Y | Y | <u>4</u> N | <u>1</u> | |
| Qatar | Y | Y | Y | <u>2</u> ¥ | <u>1</u> | local implementati on for OLDI |
| Saudi Arabia | Y | Y | Y | <u>7</u> ¥ | 2 | local implementati on for AIDC |
| Sudan | Y | Y | Y | <u>4</u> N | 0 | |
| Syria | N | N | N | <u>0</u> N | <u>0</u> | |

| UAE | Y | Y | Y | <u>4</u> ¥ | <u>3</u> | |
|---------------------------|-----|-----|-----|---------------------------|-------------------|--------------------------|
| Yemen | N | N | N | <u>0</u> N | 0 | Contract signed for AMHS |
| Total Percentag e/ Number | 73% | 67% | 80% | <u>41</u> 4 0% | <u>9</u> (22%) | |

 $[\]frac{*\,Note-the\,\,required\,\,AIDC/OLDI\,\,connection\,\,is\,\,detailed\,\,in\,\,the\,\,MID\,\,eANP\,\,Volume\,\,II\,\,Part\,\,III-CNS\,\,under}{Specific\,\,Regional\,\,Requirements}.$

MID Region AIDC/OLDI Applicability Area (Priority 1 and 2 for Implementation)

As of July 2018

| ACC | | | A | djacent ACCs | | | |
|----------|----------------------------------|---------------|-----------------|---------------|------------------------|--------------------------|--------------|
| Amman | Cairo (1) | Baghdad (2) | Damascus (2) | Jeddah (1) | Tel A | viv (2) | |
| Baghdad | Amman (2) | Ankara (1) | Damascus (2) | Jeddah (2) | Tehran (2) | Kuwait (1) | |
| Bahrain | Doha (1) | Emirates (1) | Jeddah (1) | Kuwait (1) | Riyadh (1) | Tehran (2) AFTN MSG | Dammam(2) |
| Beirut | Damas | scus (2) | Nicosia (1) | | | | |
| Cairo | Amman (1) | Athena (2) | Jeddah (1) | Khartoum (1) | Nicosia (1) | Tel Aviv (2) | Tripoli (2) |
| Damascus | Amman (2) | Ankara (2) | Bagdad (2) | Beirut (2) | Nicosia (2) | | |
| Doha* | Bahrain (1) | Emirates (1) | Jeddah (2) | Riyadh (2) | | | |
| Emirates | Bahrain (1) | Doha (1) | Jeddah (1) | Muscat (1) | Tehran (2) AFTN MSG | | |
| Jeddah | Amman (1) | Asmara (2) | Baghdad (2) | Bahrain (1) | Caira (1) | Doha (2) | Emiratas (1) |
| Jeudan | Khartoum (1) | Kuwait (2) | Muscat (1) | Riyadh (1) | Cairo (1) | Sana'a (2) | Emirates (1) |
| Riyadh | Bahrain (1) | Doha (2) | Kuwait (2) | Jeddah (1) | | | |
| I/l 4 | Addis (1) | Asmara (2) | Brazzaville (2) | Cairo (1) | Entebbe (2) | Jeddah (1) | Juba (1) |
| Khartoum | Kinshasa (2) | N'Djamena (2) | Nairobi (2) | Tripoli (2) | | | |
| Kuwait | Baghdad (1) | Bahrain (1) | Jeddah (2) | Tehran (2) | | | |
| Muscat | Emirates (1) | Jeddah (1) | Karachi (2) | Mumbai (1) | Sana'a (2) | Tehran (1) | |
| Sana'a | Djibouti (Addis Ababa) (2) | Asmara (2) | Jeddah (2) | Mogadishu (2) | Mumbai (2) | Muscat (2) | |
| Tehran | Ankara (1) | Ashgabat (2) | Baghdad (2) | Bahrain (1) | Baku (2) | Emirates (2) AFTN MSG | Kabul (2) |
| | Karachi (1) | Kuwait (2) | Muscat (1) | Yerevan (2) | | | |
| Tripoli | Algiers (2) | Cairo (2) | Khartoum (2) | Malta (2) | N'Djamena (2) | Niamey (2) | Tunis (2) |

^{(1) =} Priority 1 for implementation based on the number of traffic movements and/or operational needs (Green color means already implemented)

⁽²⁾ = Priority 2 for implementation based on the number of traffic movements or if other solution is in place such as exchange of information via AFTN

APPENDIX C

| | | tion supporting enhanced operational effici | | T | |
|------------|--|---|----------------------|--------------------------|---|
| Elements | Applicability | Performance Indicators/Supporting Metrics | Targets | Status | Remarks |
| SADIS FTP | All States | Indicator: % of States having implemented SADIS FTP service Supporting metric: Number of States | 100% By Dec. 2018 | 7380% (1112 States) | Data Collection: MID eANP Table B0-AMET 3-1 |
| | | having implemented SADIS FTP service | | | |
| QMS | All States | Indicator: % of States having implemented QMS for MET Supporting metric: number of States having implemented QMS for MET | 80% by Dec. 2018 | 60% (9 States) | Data Collection: MID eANP Table B0-AMET 3-4 |
| SIGMET | All States with MWO(s) in MID Region | Indicator: % of States having implemented SIGMET Supporting metric: number of States having implemented SIGMET | 100% by Dec. 2018 | 86% (12 of 14 States) | Data Collection: MID eANP Table B0-AMET 3-5 |
| WIND SHEAR | TBD | Indicator: TBD Supporting metric: TBD | TBD | TBD | Data Collection: MID eANP Table B0-AMET 3-6 |
| OPMET | All States | Indicator: % of States having implemented METAR and TAF Supporting metric: number of States having implemented METAR and TAF | 95% by Dec. 2018 | 80% (12 States) | Data Collection: MID eANP Table B0-AMET 3-7 |

APPENDIX C

Table B0-AMET 3-1

SADIS FTP

EXPLANATION OF THE TABLE

Column

- 1 Name of the State
- 2 Status of implementation of SADIS FTP, where:

Y – Yes, implemented

N - No, not implemented

- Action Plan
- 4 Remarks

| State | Status | Action Plan | Remarks |
|----------------------|----------------|----------------------------------|---------|
| 1 | 2 | 3 | 4 |
| BAHRAIN | Y | | |
| EGYPT | Y | | |
| IRAN (ISLAMIC | N | No Action Plan | |
| REPUBLIC OF) | | | |
| IRAQ | Y | | |
| JORDAN | Y | | |
| KUWAIT | Y | | |
| LEBANON | N | No Action Plan | |
| LIBYA | Y | | |
| OMAN | Y | | |
| QATAR | Y | | |
| SAUDI ARABIA | <mark>N</mark> | Coordinating with SADIS Provider | |
| SUDAN | Y | | |
| SYRIAN ARAB REPUBLIC | N | No Action Plan | |
| UNITED ARAB | Y | | |
| EMIRATES | | | |
| YEMEN | Y | | |

Table B0-AMET 3-2

Volcanic Ash Advisory Centers

Not Applicable

EXPLANATION OF THE TABLE

- 1 Name of the State responsible for the provision of a volcanic ash advisory centre (VAAC)
- 2 Name of the VAAC
 - Note: The name is extracted from the ICAO Location Indicators (Doc 7910).
- 3 ICAO location indicator of the VAAC
- 4 Status of implementation of volcanic ash advisory information, where:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 5 Status of implementation of volcanic ash advisory information in graphical format, where:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant

| State | Volcanic Ash Advisory | ICAO Location Indicator | Status of 1 | Implementation |
|--------|--|-------------------------|----------------|---------------------------|
| | Centre (VAAC) | 2.1.4.1.0.1 | VAA | VAG |
| 1 | 2 | 3 | 4 | 5 |
| FRANCE | Toulouse | LFPW | FC | FC |

Table B0-AMET 3-3

Tropical Cyclone Advisory Centers

Not Applicable

EXPLANATION OF THE TABLE

- 1 Name of the State responsible for the provision of a tropical cyclone advisory centre (TCAC)
- 2 Name of the TCAC
 - Note: The name is extracted from the ICAO Location Indicators (Doc 7910).
- 3 ICAO location indicator of the TCAC
- 4 Status of implementation of tropical cyclone advisory information, where:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant
- 5 Status of implementation of tropical cyclone advisory information in graphical format, where:
 - FC Fully compliant
 - PC Partially compliant
 - NC Not compliant

| State | Tropical Cyclone Advisory Centre (TCAC) | ICAO Location Indicator | Status of 1 | Implementation |
|-------|---|----------------------------|-------------|---------------------------|
| 1 | 2 | 3 | 4 | 5 |
| INDIA | New Delhi | VIDP | FC | FC |

Table B0-AMET 3-4

Quality Management System

EXPLANATION OF THE TABLE

- 1 Name of the State
- 2, 3, 4, Status of implementation of Quality Management System of meteorological information -
 - 5 QMS: not started/ planning, ongoing/ partially implemented, Implemented/ISO 9001 Certified, Date of Certification.
 - 6 Action Plan
 - 7 Remarks

| | Not started/ | Ongoing/ partially | | ented/ ISO 9001 Certified | Action Plan | Remarks |
|-------------------------|-----------------|-----------------------|--------|------------------------------|----------------|---------|
| | planning | implemented | Status | Date of Certification | | |
| State | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| BAHARAIN | | | √ | 2008 | | |
| EGYPT | | | √ | 23 May 2012 May 2015 | | |
| IRAN, | | | 1 | Oct 2015 | | |
| ISLAMIC REPUBLIC OF | | | | | | |
| IRAQ | 1 | | | | No Action Plan | |
| JORDAN | | | √ | 2 Apr 2014 | | |
| | | | | 14 April 2017 | | |
| KUWAIT | | | √ | 23 Aug 2013 22 Aug 2016 | | |
| LEBANON | 1 | | | | No Action Plan | |
| LIBYA | √ | | | | No Action Plan | |
| OMAN | | √ | | | TBD | |
| QATAR | | | √ | Dec 2011 | | |
| SAUDI | | | √ | Aug 2014 | | |
| ARABIA | | | | | | |
| SUDAN | | | √ | 5 June 2014 | | |
| SYRIAN ARAB REPUBLIC | √ | | | | No Action Plan | |
| UNITED ARAB | | | √ | 19 Dec 2012 | | |
| EMIRATES | | | | 18 Dec 2015 | | |
| YEMEN | 7 | | | | No Action Plan | |

Table B0-AMET 3-5 SIGMET Availability

EXPLANATION OF THE TABLE

Column

Name of the State

Status of implementation of SIGMET, where:

Y – Yes, implemented (at least one SIGMET received within a 5 month monitoring period, or as required)

N – No, not implemented (no SIGMET received within a 5 month monitoring period)

3 Status of implementation of SIGMET format, where:

Y – Yes, implemented (at least 95% of received SIGMET messages reveal the correct format (TTAAii CCCC in accordance to the MID SIGMET Guide; ATSU, MWO, FIR and FIR name in accordance to ICAO Doc 7910) for the first two lines of SIGMET)

N-No, not implemented (less than 95% of received SIGMET messages reveal the correct format for the first two lines of SIGMET)

4 Action Plan

5 Remarks

| J Kemarks | | entation | | |
|------------------------------|------------------|------------------|----------------|---|
| State | SIGMET Reception | SIGMET Format | Action Plan | Remarks |
| 1 | <mark>2</mark> | <mark>3</mark> | <mark>4</mark> | <u>5</u> |
| BAHRAIN | Y | Y | | |
| EGYPT | Y | Y | | |
| IRAN, ISLAMIC REPUBLIC OF | Y | Y | | |
| IRAQ | Y | Y | | Verify the header for Iraq is WSIQ01 ORBI for FIR ORBB – if so, update to MID Doc 009 |
| <mark>JORDAN</mark> | Y | Y | | |
| KUWAIT | Y | Y | | |
| LEBANON | Y | Y | | |
| LIBYA | Y | N | | Indicators HLMC for MWO and HLLL for FIR are not defined in ICAO Doc 7910 |
| OMAN | Y | Y | | |
| QATAR | N/A | N/A | | These fields are not applicable to Qatar |
| SAUDI ARABIA | Y | Y | | |
| SUDAN | Y | Y | | |
| SYRIAN ARAB | N | N | No Action Plan | |
| REPUBLIC | | | | |
| UNITED ARAB EMIRATES | Y | Y | | |
| YEMEN | N | N | No Action Plan | |

Table B0-AMET 3-6 WIND SHEAR Availability

TBD

Draft Table B0-AMET 3-7

OPMET Availability (METAR and TAF)

EXPLANATION OF THE TABLE

Column

Name of the State

2, 3 Status of availability of METAR and TAF for AOP aerodromes, where:

Y – Yes, implemented (95% availability of required METAR within a State; 95% availability of required TAF within a State)

N – No, not implemented

4 Remarks

| | Implem | entation | Remarks |
|---------------------------|--------|----------|------------------------------|
| <u>State</u> | METAR | TAF | |
| 1 | 2 | 3 | 4 |
| BAHRAIN | Y | Y | <u> </u> |
| EGYPT | Y | Y | |
| IRAN, ISLAMIC REPUBLIC OF | Y | Y | |
| IRAQ | N | N | MEAR and TAF needed for ORBM |
| JORDAN | Y | Y | |
| KUWAIT | Y | Y | |
| LEBANON | Y | Y | |
| LIBYA | Y | Y | |
| <mark>OMAN</mark> | Y | Y | |
| QATAR | Y | Y | |
| SAUDI ARABIA | Y | Y | |
| SUDAN | Y | Y | |
| SYRIAN ARAB REPUBLIC | N | N | METAR &TAF needed for OSAP |
| UNITED ARAB EMIRATES | Y | Y | |
| YEMEN | N | N | METAR & TAF needed for OYAA, |
| | | | OYHD, OYRN, OYSN and OYTZ |