**INTERNATIONAL CIVIL AVIATION ORGANIZATION**

**MIDDLE EAST OFFICE**


**EIGHTH MEETING OF THE AIR TRAFFIC FLOW MANAGEMENT TASK FORCE**

**(ATFM TF/8)**


*(Virtual, 31 October – 1 November 2023)*


**SUMMARY OF DISCUSSIONS**

## 1. PLACE AND DURATION

1.1        The Eighth meeting of the Air Traffic Flow Management Task Force (ATFM TF/8) was held virtually, on 31 October and 1 November 2023, using MS Teams.

## 2. OPENING

2.1        The meeting was opened by the ATFM Chairperson Mr. Hamad Al Belushi, Senior Expert - Air Traffic Management, GCAA, UAE, who welcomed all the participants and recalled the main tasks assigned to the ATFM Task Force emanating from the MIDANPIRG meetings. Additionally, he invited MID States as well as International Organizations to support the implementation plan as agreed, in particular Phase 1A. He highlighted that the results of the Survey proved large progress in ATFM implementation on National level in many MID States, which will be the main discussion of this meeting. He thanked all the participants for their attendance and wished the meeting every success in its deliberations.

## 3. ATTENDANCE

3.1        The meeting was attended by a total of thirty-seven (37) participants from nine (9) States (Bahrain, Egypt, Iraq, Jordan, Oman, Qatar, Saudi Arabia, UAE and USA-FAA) and three (3) International Organizations (AEROTHAI, CANSO and IATA). The list of participants is at **Attachment A**.

## 4. OFFICERS AND SECRETARIAT

4.1        Mr. Ahmad Amireh, Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR) and Mr. Ahmad Kaveh, Regional Officer, Air Traffic Management (RO/ATM) were the Secretaries of the meeting, supported by Ms. Dina El Karimy, Technical Assistant (TA).

## 5. DISCUSSIONS

### AGENDA ITEM 1: ADOPTION OF THE PROVISIONAL AGENDA

5.1        The meeting adopted the following Agenda:

Agenda Item 1:       Adoption of the Provisional Agenda

Agenda Item 2:       Regional Framework:
- Update from APAC ATFM TF
- Follow-up on the MIDANPIRG meeting outcomes related to ATFM
- Results of the MID ATFM implementation Survey 2023
- States' Experience and Challenges
- Review and update MID ATFM Implementation Action Plan

Agenda Item 3:       Future Work Programme

Agenda Item 4:       Any other Business

5.2        The documentation and presentations delivered during the meeting are available on the ICAO MID Office website at: https://www.icao.int/MID/Pages/2023/ATFM%20TF8.aspx.

**AGENDA ITEM 2:    REGIONAL FRAMEWORK**

*Follow-up on MIDANPIRG Outcomes related to ATFM*

5.3            The subject was addressed in WP/2, presented by the Secretariat.

5.4            The meeting recalled the discussion during the MIDANPIRG/20 meeting and appreciation received on the work of the ATFM Task Force, in particular the organization of the MID ATFM Implementation Workshop (Doha, Qatar, 6 – 7 February 2023) to foster the ATFM implementation in the MID Region. The Workshop provided an opportunity to support the MID States in taking the proper actions required for implementing Phase 1A of the MID ATFM Implementation Plan within the agreed timelines. Additionally, the Workshop was considered a venue for States and international Organizations to share their experience and challenges among the MID ATFM TF members.

5.5            Furthermore, the MIDANPIRG/20 meeting encouraged the MID States to use the information presented in the Workshop to support the implementation of Phase 1A, and report progress or challenges to the next TF meeting. The timeline of Phase 1A implementation according to the MID ATFM Plan is agreed to be 31 December 2023.

5.6            It was highlighted that the results of the last conducted ATFM implementation survey (on 2018) do not represent the latest developments in the States, based on the updates received by the States. The ATFM TF was tasked to develop and circulate a new survey, including the activities of Phase IA of the MID ATFM Implementation Plan, to the MID States to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

5.7            Additionally, it was noted with appreciation the offers received for sharing the experience from Qatar and UAE related to the provision of support to the States in ATFM, including support in documentation (regulation and operations manual) and initial training and setup of ATFM unit and OJT training. Also, for benchmarking of the different tools implemented within Sheikh Zayed Air Navigation Centre (SZC), to support ATC workload, thus, enhance Airspace capacity.

5.8            The meeting highlighted that the main purpose of ATFM implementation is to utilize the available capacity; while the States / ANSPs were urged to prioritize Capacity enhancements projects in terms airspace restructure, ATC sectorization and manpower management prior to implementing any ATFM measures.

*Update from APAC ATFM TF*

5.9            The subject was presented in PPT/8, presented by the Asia and Pasific Region (APAC) ATFM TF Chairperson.

5.10            The meeting was apprised with the developments made by the APAC ATFM TF, including the Global development related to the amendment of the ICAO Doc 9971 and the reflection on the APAC ATFM document, including:

- Alignment with Doc 9971 ATFM solution concept of matching capacity to demand first, followed by demand adjustments through ATFM measures;

- Added content on ATFM / A-CDM integration;

- Reference to separate ATFM Daily Plan Exchange Procedure (attached): enabling automated processing of ADPs shared via emails;

- Reference to separate AFTN/AMHS ICD for communicating ATFM information (attached) using ADEXP SAM, SRM, SLC messages in the interim prior to FIXM 4.2 with appropriate APAC Extension;

- Reference to separate Post-Ops Analysis Recommended Framework (attached);

- Reference to separate Basic Phrases for Cross-Border GDP Coordination;

- Splitting Training & Competency Appendix referred to by Doc 9971 3rd edition into a separate document; and

- Updated Performance Improvement Plan and associated Regional ATFM Monitoring & Reporting Form questions.

5.11        The meeting noted with appreciation the guidance material provided to the MID Region ATFM TF by APAC ATFM TF, in order to support the further developments of the MID ATFM Plan.

5.12        Based on the above, the meeting requested the MID ATFM Core Team to explore the material and to update the Doc 014 accordingly and provide update to the TF meetings.

5.13        In addition, the result of current APAC Regional ATFM status was presented to the meeting. The meeting was informed that APAC ATFM Steering Group collects Regional ATFM Monitoring & Reporting Forms on an annual basis to assess regional ATFM implementation progress and identify areas where additional support may be required.

***Results of the MID ATFM Implementation Survey 2023***

5.14        The subject was addressed in WP/4, presented by the Secretariat.

5.15        The meeting recalled the ICAO MID Doc.014: MID ATFM Implementation Plan (available under ICAO MID Website: https://www.icao.int/MID/MIDANPIRG/Pages/MID-Docs.aspx); in particular Part I, item 5, related to the timelines of implementation Phases, as follows:

        a)  REGIONAL ATFM CAPABILITY PHASE I (2 years)

              i.  Phase IA (Expected implementation duration, 1 year);

             ii.  Phase IB (Expected implementation duration, 1 year); and

        b)  REGIONAL ATFM CAPABILITY PHASE II (3 years).

5.16        Additionally, the meeting recalled the that the ATFM TF was encouraged to develop and circulate a survey to the MID States, including the activities of Phase IA of the MID ATFM Implementation Plan, to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

5.17        The meeting noted with appreciation that the Secretariat, with the support of the ATFM TF Chairperson, developed and circulated the ATFM Implementation Survey 2023 through ICAO MID State Letter (Ref: ME 3/2.1.1 – 23/193 dated 12 September 2023).

5.18        The main areas have been identified and addressed by this questionnaire based on ICAO MID Doc 014 requirement: a total of 41 questions including 38 predefined answers (implemented/Not implemented) and 3 explanatory questions asked States; under the following areas:

        a)  States focal points;
        b)  National regulation, staffing and training;
        c)  Demand analysis;
        d)  Capacity calculations;
        e)  Measures at airports and TMA;
        f)  Measures at ACC sectors;
        g)  Supporting tools;

      h) Enhancements;
      i) ADP and ATFM measures; and
      j) Additional information.

5.19      The details of the survey analysis are presented at **Appendix A** which is categorized as follows:

      a) 8 States out of 15 MID States representing 53.3 % participated in this activity;

      b) the level of implementation was found as follows:

|       | **Survey Area**                             | **Result** |
|-------|---------------------------------------------|------------|
| **i.**    | **National regulation, staffing and training** | **60%**    |
| **ii.**   | **Demand analysis**                         | **66%**    |
| **iii.**  | **Capacity calculation**                    | **63%**    |
| **iv.**   | **Measures at airport and TMA**             | **44%**    |
| **v.**    | **Measures at ACC sector**                  | **55%**    |
| **vi.**   | **Supporting tools**                        | **63%**    |
| **vii.**  | **Airspace enhancements**                   | **94%**    |
| **viii.** | **ADP and ATFM measures**                   | **47%**    |

      c) the overall implementation of ATFM Phase IA requirements was 60 %.

5.20      Based on the above, the meeting identified the following common areas to foster the implementation of MID ATFM Phase IA:

|   | Common Area                                                                 | Current Status |
|---|-----------------------------------------------------------------------------|----------------|
| 1 | National Regulations and organizational subjects including ATFM posts        | 38%            |
| 2 | capacity calculation (strategic level) at TMA(s)                            | 50%            |
| 3 | optimize the operations within the TMA(s), ACC(s) and interface with adjacent ACCs | 0%       |
| 4 | daily pre-tactical capacity and demand analysis at TMA(s)                   | 13%            |
| 5 | NOPS B0/1: Initial integration of collaborative airspace management with ATFM | 38%          |
| 6 | ATFM Letter of Agreement/Procedures between the ACC(s)                      | 38%            |
| 7 | coordinated ATFM Daily Plan (ADP) and share with the concerned Stakeholders | 25%.           |

5.21      The meeting agreed that for the coming period, the Task Force will focus on the items identified above, and encouraged the MID Office to include, in its plan for the year 2024, further implementation support activities to enhance the level of implementation.

*States' Experience and Challenges*

5.22        The subject was addressed in PPT/5A and PPT/5B, presented by Iraq and Saudi Arabia, respectively.

5.23        The meeting noted with appreciation the efforts made by Iraq and Suadi Arabia in implementing relevant parts of Doc 014; mainly related to traffic demand and capacity calculations; and highlighted that the exchange of operational data will enhance the efficiency of Traffic movements. The meeting encouraged the States to use the experience presented in further development of the ATFM in their FIR.

*Review and Update MID ATFM Implementation Action Plan*

5.24        The subject was addressed in WP/6, presented by the Secretariat.

5.25        The meeting reviewed and updated the MID ATFM Action Plan, as at **Appendix B**.

**AGENDA ITEM 3:    FUTURE WORK PROGRAMME**

5.26        The subject was addressed in WP/7, presented by the Secretariat. The meeting reviewed ATFM TF Terms of Reference, as at **Appendix C**.

5.27        The meeting agreed that the ATFM TF/9 and TF/10 meetings be planned as follows:

- ATFM TF/9 meeting: June 2024 (2 days) Workshop (2 days); MID Office, Cairo.

- ATFM TF/10 meeting: Q4/2024, virtual (2 days).

5.28        The exact dates will be coordinated between the ICAO MID Office and the Chairperson of the ATFM Task Force.
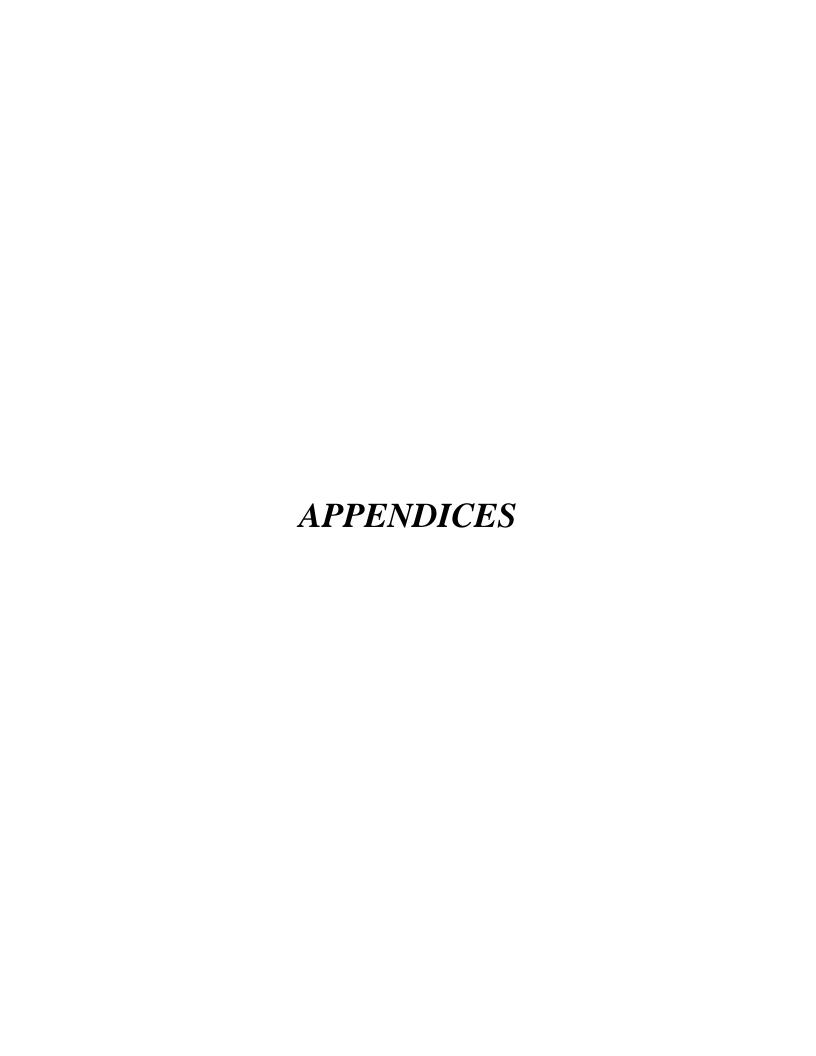
**AGENDA ITEM 4:    ANY OTHER BUSINESS**

5.29        The meeting noted with appreciation the presentation provided by the MID ATFM Core Team member, Mr. Stuart Ratcliffe, regarding the modern technology utilized to support ATFM implementation and addressing common challenges such as: demand prediction and accuracy, regional ATFM, LR-ATFM, TBO, FF-ICE, and cost of ATFM implementation.

5.30        It was highlighted that the Global Satellite data now being readably available a common surveillance picture of all traffic can be used in ATFM. This surveillance data integrated into Cloud-based ATFM systems enables easy implementation of ATFM units from a technical perspective. Cloud based systems require no hardware infrastructure on site allowing for ATFM to be carried out from a regular PC station connected to the internet.

**6.      CLOSING**

6.1        Mr. Hamad Al Belushi, the Task Force Chairperson thanked all participants for their active participation, fruitful discussion, and valuable outcomes. Additionally, he highlighted that the traffic demand within the MID Region has recovered and, in some cases, exceeded the levels prior to COVID-19, which will put the pressure on the need for ATFM solutions to support this demand in the most safe and efficient manner.

6.2        The participants thanked ICAO for organizing such a fruitful meeting and the follow-up actions.

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# APPENDICES

**ICAO MID**

**Air Traffic Flow Management (ATFM) Survey 2023**

**Objective:**

This ATFM Survey 2023 is prepared and circulated in accordance with the outcomes of the ATFM TF/7 (Doha, Qatar, 8-9 Feb 2023), the result will be reviewed by ATFM TF/8 before presenting to ATM SG/9 planned in November 2023 for further process.

**History:**

The ATFM TF/7 meeting noted that the results of the last ATFM implementation survey (conducted on 2018) are not representing the latest developments by the States, and encouraged the ATFM TF to develop and circulate a new survey, including mainly the activities of Phase IA of the MID ATFM Implementation Plan (MID Doc 014), to the MID States to enable the TF to monitor the actual level of implementation and provide the necessary support, as required.

Based on the above, ATFM TF/7 meeting agreed on the development and distribution of the ATFM implementation survey by the Secretariat supported by the Chairperson.

**Methodology:**

In this survey, a questionnaire is developed in accordance with ICAO MID Doc 014 (MID ATFM plan) implementation phase IA only. the questionnaire is composed of an objective and direct questions, to allow solid analysis of responses.

States that are ahead of Phase 1A of the MID Region Plan, are requested to elaborate on their current implementation in the text box at the end of the questionnaire; also, they are invited to share their experience in the implementation with the ATFM TF members.

**Duration:**

This questionnaire consists of 40 questions and expected to take 30 minutes to complete.

**References:**

- ICAO MID ATFM Plan (MID Doc 014): https://www.icao.int/MID/MIDANPIRG/Pages/MID-Docs.aspx
- GANP portal: https://www4.icao.int/ganpportal/
- ASBU Elements: https://www4.icao.int/ganpportal/ASBU

for further details/clarification, please contact Mr. Ahmad Kaveh (Akaveh@icao.int)
Please submit the response to ICAO MID at (icaomid@icao.int) before 10 October 2023.

This survey is also available online: https://forms.office.com/r/wcdFsQbv9g


Air Traffic Flow Management (ATFM) Survey 2023

| # | Area | Questions | Bahrain | Egypt | Iran | Iraq | Jordan | Lebanon | Libya | Kuwait | Oman | Qatar | Saudi Arabia | Sudan | Syria | UAE | Yemen |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Focal Point contact details | State Focal Point: Please enter: Name, Job Title, Department, Organization/State | Ahmed AlMalki A/Chief Air Traffic Management Kingdome of Bahrain | Mr.Mohamed Ali - ATM GD | seyedeh hannan sheikh mohammad amini | mohanad ali mohammed ATFM Manager GCANS - Iraq | not implented | | | Mustafa Altarrah Head of Air Navigation Services Inspectors | Mohammed Rashid Al Balushi,ATFM focal/ATCO/ATSM,Air Traffic Services, CAA/Oman | | Name: Ahmad Abu-Ghallab Job title: ATFM Chief Department: Air Traffic Management Organization: Saudi Air Navigation Services (SANS) | | | Saqr Al Marashda, Senior Manager - Airspace Management, Air Traffic Management Department, UAE GCAA | |
| | | Contact details: Please provide phone number and email address. | (973)17321085 a.almalki@mtt.gov.bh | m.ali@civilaviation.gov.eg – mohali777@gmail.com | h-amini@caa.gov.ir | 009647708817030 atfm-manager@gcans.gov.iq | not implented | | | +965 64444408 | Telephon:+968 99771975. email:mohammad.balushi @caa.gov.om | | Phone number: +966126848121 E-mail: asabughallab@sans.com.sa | | | P: +97125996677 e: smarashda@szc.gcaa.ae | |
| IA-1 | National Regulation, Staffing and Training | Has your State promulgated National regulations for the implementation of ATFM? (Ref. An. 11, Chapter 3, Para 3.7.5 and Doc 4444, Chapter 3, Para 3.2) | Implemented | Implemented | Not Implemented | | partially | | | Implemented | Not Implemented | Implemented | Implemented | | | Not Implemented | |
| IA-2 | | Has your State developed national ATFM procedure to meet the ICAO MID ATFM Plan (Doc 014) Part I Phase IA Para 5.5? | Implemented | Not Implemented | Not Implemented | Implemented | | | | Implemented | Implemented | Implemented | Implemented | | | Not Implemented | |
| IA-3 | | Has your State/ANSP established an Organizational structure including ATFM posts? (in accordance with Doc 9971, Part II, Chapter 3, Para 3.1) | Implemented | Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Not Implemented | |
| IA-4 | | Has your State/ANSP assigned/recruited staff (with clear Job Description) for provision of ATFM services? | Not Implemented | Implemented | Not Implemented | Implemented | | | | Not Implemented | Not Implemented | Implemented | Implemented | | | Not Implemented | |
| IA-5 | | Has your State/ ANSP conducted the required Training for ATFM Personnel? (Ref. MID Doc 014, Part I, Para 3.64 & 3.65 as well as Appendix J) | Not Implemented | Not Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Not Implemented | |
| IA-6 | | Has your State/ANSP conducted awareness for ATM staff on the basics of ATFM and its connection with ATS units? (Ref. ICAO MID Doc 014, Part I, Appendix J, attachment C) | Implemented | Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-7 | | Has your State/ANSP conducted workshops / training courses to introduce the basics of ATFM to external stakeholders including Airspace Users (AUs)? | Not Implemented | Not Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-8 | Demand analysis | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at international Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.7) | Implemented | Implemented | Not Implemented | Not Implemented | partially | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-9 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at TMAs? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7) | Implemented | Implemented | Not Implemented | Not Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-10 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at ACC Sectors? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7) | Implemented | Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Not Implemented | | | Implemented | |
| IA-11 | | Has your State identified Airspaces (TMA, ACC sectors) or Airports where Air Traffic demand could exceed or expected to exceed the capacity of Air Traffic Services concerned? To be included in ATFM Programme. | Implemented | Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-12 | Capacity Calculations | Has your State/ANSP performed capacity calculation (strategic level) at international Airports? | Implemented | Not Implemented | Not Implemented | Implemented | not implented | | | Not Implemented | Not Implemented | Implemented | Implemented | | | Implemented | |
| IA-13 | | Has your State/ANSP performed capacity calculation (strategic level) at TMA(s)? | Implemented | Not Implemented | Not Implemented | Not Implemented | not implented | | | Not Implemented | Not Implemented | Implemented | Implemented | | | Implemented | |
| IA-14 | | Has your State/ANSP performed capacity calculation (strategic level) at ACC sectors/ATS route segment(s)? | Implemented | Implemented | Not Implemented | Implemented | not implented | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-15 | | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly…) analysis of traffic demand at international Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | Implemented | Implemented | Not Implemented | Not Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Implemented | |
| IA-16 | | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly…) analysis of traffic demand at TMA(s)? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | Implemented | Implemented | Not Implemented | Not Implemented | implemented | | | Not Implemented | Not Implemented | Implemented | Implemented | | | Implemented | |
| IA-17 | | Does your State/ANSP developed procedure to collect, analyze and disseminate constraints at the identified Airport(s) and TMAs related to capacity, Weather, equipment outage, Runway closure and other operational issues? | Implemented | Not Implemented | Not Implemented | Implemented | | | | Not Implemented | Implemented | Implemented | Implemented | | | Not Implemented | |

| ID | Category | Question | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-18 | Measures at Airports and TMA | Is the FRTO B0/2: Airspace planning and Flexible Use of Airspace (FUA) implemented in TMA(s)? | Implemented | Not Implemented | Not Implemented | Not Implemented | | Not Implemented | Not Implemented | Implemented | Implemented | Implemented |
| IA-19 | | Does your State/ANSP perform daily pre-tactical capacity and demand analysis at all Airports included in the ATFM programme? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | Not Implemented | Implemented | Not Implemented | Implemented | not implented | Not Implemented | Implemented | Implemented | Not Implemented | Not Implemented |
| IA-20 | | Does your State/ANSP develop daily pre-tactical capacity and demand analysis at TMA(s)? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | Not Implemented | Implemented | Not Implemented | Not Implemented | not implented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented |
| IA-21 | | Has your State/ANSP developed the required ATC procedures related to the implementation of ATFM at relevant international Airports? | Not Implemented | Not Implemented | Not Implemented | Implemented | not implented | Not Implemented | Implemented | Implemented | Implemented | Not Implemented |
| IA-22 | | Has your State/ANSP developed ATFM Letter of Agreement/Procedures between the ATC units and identified Airports within your FIR? | Implemented | Not Implemented | Not Implemented | Not Implemented | not implented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented |
| IA-23 | Measures at ACC Sectors | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | Implemented | Implemented | Implemented | Implemented | Implemented | Not Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-24 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.7) | Implemented | Implemented | Not Implemented | Implemented | Implemented | Not Implemented | Implemented | Implemented | Not Implemented | Implemented |
| IA-25 | | Has your State/ANSP developed a procedure to collect, analyze and disseminate constraints at enroute related to capacity, equipment outage, Airspace reservation, Route closure and operational issues? | Implemented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented | Not Implemented | Implemented | Implemented | Not Implemented |
| IA-26 | | Is the FRTO B0/2: Airspace planning and Flexible Use of Airspace (FUA) implemented in ACC sectors? | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Implemented | | Implemented | Implemented |
| IA-27 | | Does your State/ANSP perform daily pre-tactical capacity and demand analysis at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | Implemented | Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented | Implemented | Implemented | Not Implemented | Not Implemented |
| IA-28 | | Has your State/ANSP developed the required ATC procedures related to the implementation of ATFM at relevant ACC sector(s)? | Implemented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented | Implemented | Implemented | Not Implemented | Implemented |
| IA-29 | | Has your State/ANSP developed ATFM Letter of Agreement/Procedures between the ACC(s) and the relevant ACC(s)? | Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Not Implemented | Implemented | Implemented |
| IA-30 | Supporting tools | Does the ATM automation system (if available) include a Basic conflict detection and conformance monitoring (FRTO B0/4) | Implemented | Implemented | Not Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Not Implemented |
| IA-31 | | Has your State/ANSP implemented NOPS B0/1: Initial integration of collaborative airspace management with ATFM? | Not Implemented | Not Implemented | Not Implemented | Implemented | Not Implemented | Implemented | Not Implemented | Implemented | Implemented | Not Implemented |
| IA-32 | | Has your State/ANSP implemented FICE B0/1: Automated basic inter facility data exchange (AIDC/OLDI)? | Implemented | Implemented | Not Implemented | Not Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-33 | Airspace enhancements | Has your State/ANSP identified a need for improvement to optimize the operations within the TMA(s)? | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-34 | | Has your State/ANSP identified a need for improvement to optimize the operations of the ACC(s)? | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-35 | | Has your State/ANSP identified a need for improvement at the interfaces with adjacent ACCs? | Implemented | Not Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-36 | | Based on the response of the item above, Does the optimization at the ACC interface requires regional agreement/support? | Implemented | Implemented | Not Implemented | Implemented | Implemented | Not Implemented | Implemented | Implemented | Implemented | Implemented |
| IA-37 | ADP and ATFM measures | Does your State/ANSP develop coordinated ATFM Daily Plan (ADP) and share with the concerned Stakeholders? (Ref. on ICAO MID Doc 014, Part I, Para 5.9 and 5.10) | Not Implemented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented | Not Implemented | Implemented | Not Implemented | Not Implemented |
| IA-38 | | Based on your capacity vs demand analysis, has your State identified the need to implement ATFM measures? | Not Implemented | Implemented | Not Implemented | Implemented | Not Implemented | Implemented | | Implemented | Implemented | Implemented |
| | Other information | Any other additional information on the national ATFM implementation/plan | | Not Implemented | | | Not Implemented | | | | | |

| | Area | Question | Bahrain | Iran | Iraq | Kuwait | Qatar | UAE | Oman | KSA | Jordan | Egypt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-1 | National Regulation, Staffing and Training | Has your State promulgated National regulations for the implementation of ATFM? (Ref. An. 11, Chapter 3, Para 3.7.5 and Doc 4444, Chapter 3, Para 3.2) | 1 | 2 | | 1 | 1 | 2 | 2 | 1 | 2 | 1 |
| IA-2 | | Has your State developed national ATFM procedure to meet the ICAO MID ATFM Plan (Doc 014) Part I Phase IA Para 5.5? | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 |
| IA-3 | | Has your State/ANSP established an Organizational structure including ATFM posts? (in accordance with Doc 9971, Part II, Chapter 3, Para 3.1) | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 |
| IA-4 | | Has your State/ANSP assigned/recruited staff (with clear Job Description) for provision of ATFM services? | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 |
| IA-5 | | Has your State/ ANSP conducted the required Training for ATFM Personnel (Ref. MID Doc 014, Part I, Para 3.64 & 3.65 as well as Appendix J) | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| IA-6 | | Has your State/ANSP conducted awareness for ATM staff on the basics of ATFM and its connection with ATS units? (Ref. ICAO MID Doc 014, Part I, Appendix J, attachment C) | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| IA-7 | | Has your State/ANSP conducted workshops / training courses to introduce the basics of ATFM to external stakeholders including Airspace Users (AUs)? | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 |
| IA-8 | Demand analysis | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at international Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.7) | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| IA-9 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at TMAs? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7) | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| IA-10 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at ACC Sectors? (Ref. based on ICAO MID Doc 014, Part I, Para 5.7) | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 |
| IA-11 | | Has your State identified Airspaces (TMA, ACC sectors) or Airports where Air Traffic demand could exceed or expected to exceed the capacity of Air Traffic Services concerned? To be included in ATFM Programme. | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| IA-12 | Capacity Calculations | Has your State/ANSP performed capacity calculation (strategic level) at international Airports? | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| IA-13 | | Has your State/ANSP performed capacity calculation (strategic level) at TMA(s)? | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| IA-14 | | Has your State/ANSP performed capacity calculation (strategic level) at ACC sectors/ATS route segment(s)? | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| IA-15 | Measures at Airports and TMA | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at international Airports? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-16 | | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at TMA(s)? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 |
| IA-17 | | Does your State/ANSP developed procedure to collect, analyze and disseminate constraints at the identified Airport(s) and TMAs related to capacity, Weather, equipment outage, Runway closure and other operational issues? | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 |
| IA-18 | | Is the FRTO B0/2: Airspace planning and Flexible Use of Airspace (FUA) 1 in TMA(s)? | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 |
| IA-19 | | Does your State/ANSP perform daily pre-tactical capacity and demand analysis at all Airports included in the ATFM programme? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 |
| IA-20 | | Does your State/ANSP develop daily pre-tactical capacity and demand analysis at TMA(s)? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 |
| IA-21 | | Has your State/ANSP developed the required ATC procedures related to the implementation of ATFM at relevant international Airports? | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| IA-22 | | Has your State/ANSP developed ATFM Letter of Agreement/Procedures between the ATC units and identified Airports within your FIR? | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| IA-23 | Measures at ACC Sectors | Has your State/ANSP performed a regular (bi-annual, quarterly, monthly...) analysis of traffic demand at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.6) | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-24 | | Has your State/ANSP performed an analysis of traffic demand and expected growth for the next 5 years at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.7) | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| IA-25 | | Has your State/ANSP developed a procedure to collect, analyze and disseminate constraints at enroute related to capacity, equipment outage, Airspace reservation, Route closure and operational issues? | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| IA-26 | | Is the FRTO B0/2: Airspace planning and Flexible Use of Airspace (FUA) 1 in ACC sectors? | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 |
| IA-27 | | Does your State/ANSP perform daily pre-tactical capacity and demand analysis at ACC sectors? (Ref. on ICAO MID Doc 014, Part I, Para 5.8) | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 |
| IA-28 | | Has your State/ANSP developed the required ATC procedures related to the implementation of ATFM at relevant ACC sector(s)? | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 |
| IA-29 | | Has your State/ANSP developed ATFM Letter of Agreement/Procedures between the ACC(s) and the relevant ACC(s)? | 1 | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | 2 |
| IA-30 | Supporting tools | Does the ATM automation system (if available) include a Basic conflict detection and conformance monitoring (FRTO B0/4) | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| IA-31 | | Has your State/ANSP 1 NOPS B0/1: Initial integration of collaborative airspace management with ATFM? | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| IA-32 | | Has your State/ANSP 1 FICE B0/1: Automated basic inter facility data exchange (AIDC/OLDI)? | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-33 | Airspace enhancements | Has your State/ANSP identified a need for improvement to optimize the operations within the TMA(s)? | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-34 | | Has your State/ANSP identified a need for improvement to optimize the operations of the ACC(s)? | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-35 | | Has your State/ANSP identified a need for improvement at the interfaces with adjacent ACCs? | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| IA-36 | | Based on the response of the item above, Does the optimization at the ACC interface requires regional agreement/support? | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| IA-37 | ADP and ATFM measures | Does your State/ANSP develop coordinated ATFM Daily Plan (ADP) and share with the concerned Stakeholders? (Ref. on ICAO MID Doc 014, Part I, Para 5.9 and 5.10) | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| IA-38 | | Based on your capacity vs demand analysis, has your State identified the need to implement ATFM measures? | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 |

## Summary Totals

| | Total replied | Total (National Regulation, Staffing and Training) | Total (Demand analysis) | Total (Capacity Calculations) | Total (Measures at Airports and TMA) | Total (Measures at ACC Sectors) | Total (Supporting tools) | Total (Airspace enhancements) | Total (ADP & ATFM measures) |
|---|---|---|---|---|---|---|---|---|---|
| Total | 377 | 69 | 40 | 30 | 80 | 69 | 30 | 40 | 19 |
| Total implemented / Implemented | 213 | 37 | 25 | 16 | 36 | 35 | 19 | 37 | 8 |
| % | 56.5 | 53.6 | 62.5 | 53.3 | 45.0 | 50.7 | 63.3 | 92.5 | 42.1 |
| Total not implemented / Not implemented | 164 | 32 | 15 | 14 | 44 | 34 | 11 | 3 | 11 |

## Implementation by Country

| Area | Bahrain | Iran | Iraq | Kuwait | Qatar | UAE | Oman | Saudi Arabia | Jordan | Egypt | Average in each area |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **National Regulation, Staffing and Training** (Total / Implemented / %) | 7 / 4 / 57.1 | 7 / 0 / 0 | 7 / 6 / 85.7 | 7 / 2 / 28.6 | 7 / 7 / 100 | 7 / 2 / 28.6 | 7 / 5 / 71.4 | 7 / 7 / 100 | 7 / 0 / 0 | 7 / 4 / 57.1 | 53.6 |
| **Demand analysis** (Total / Implemented / %) | 4 / 4 / 100 | 4 / 0 / 0 | 4 / 2 / 50 | 4 / 0 / 0 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 3 / 75 | 4 / 0 / 0 | 4 / 4 / 100 | 62.5 |
| **Capacity Calculations** (Total / Implemented / %) | 3 / 3 / 100 | 3 / 0 / 0 | 3 / 2 / 66.7 | 3 / 0 / 0 | 3 / 3 / 100 | 3 / 3 / 100 | 3 / 1 / 33.3 | 3 / 3 / 100 | 3 / 0 / 0 | 3 / 1 / 33.3 | 53.3 |
| **Measures at Airports and TMA** (Total / Implemented / %) | 8 / 5 / 62.5 | 8 / 0 / 0 | 8 / 3 / 37.5 | 8 / 0 / 0 | 8 / 8 / 100 | 8 / 3 / 37.5 | 8 / 4 / 50 | 8 / 5 / 62.5 | 8 / 4 / 50 | 8 / 4 / 50 | 45.0 |
| **Measures at ACC Sectors** (Total / Implemented / %) | 7 / 6 / 85.7 | 7 / 0 / 0 | 7 / 5 / 71.4 | 7 / 0 / 0 | 7 / 5 / 71.4 | 7 / 5 / 71.4 | 7 / 5 / 71.4 | 7 / 4 / 57.1 | 7 / 2 / 28.6 | 7 / 3 / 42.9 | 50.7 |
| **Supporting tools** (Total / Implemented / %) | 3 / 2 / 66.7 | 3 / 0 / 0 | 3 / 2 / 66.7 | 3 / 3 / 100 | 3 / 3 / 100 | 3 / 1 / 33.3 | 3 / 2 / 66.7 | 3 / 2 / 66.7 | 3 / 2 / 66.7 | 3 / 2 / 66.7 | 63.3 |
| **Airspace enhancements** (Total / Implemented / %) | 4 / 4 / 100 | 4 / 3 / 75 | 4 / 4 / 100 | 4 / 3 / 75 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 4 / 100 | 4 / 3 / 75 | 92.5 |
| **ADP and ATFM measures** (Total / Implemented / %) | 2 / 0 / 0 | 2 / 0 / 0 | 2 / 2 / 100 | 2 / 1 / 50 | 2 / 2 / 100 | 2 / 1 / 50 | 2 / 0 / 0 | 2 / 1 / 50 | 2 / 0 / 0 | 2 / 1 / 50 | 42.1 |
| **Overall MID states implementation** | 73.7 | 7.9 | 68.4 | 23.7 | 94.7 | 60.5 | 65.8 | 76.3 | 31.6 | 57.9 | 56.5 |

**ACTION PLAN FOR IMPLEMENTATION OF ATFM IN THE MID REGION**

| Key Activities | Action | | Target date | Deliverable | Champion | Supported by | Status / RMKs |
|---|---|---|---|---|---|---|---|
| | No. | Description | | | | | |
| **Key Activity 1**<br><br>Agreement on the ATFM Regional Framework | **1.1** | Recommending the best Scenario for a regional ATFM framework | 20 Mar 2019 | Recommendation | ATFM TF/2 meeting | | Completed |
| | **1.2** | Presentation to the ACAO ANC/40 | 21 Mar 2019 | Support | ACAO | | Completed |
| | **1.3** | Preparing a Working Paper to MIDANPIRG/17 | 30 Mar 2019 | WP | Secretariat | Chairman | Completed |
| | **1.4** | Agreement on the regional ATFM framework by MIDANPIRG | 18 Apr 2019 | MIDANPIRG Conclusion | MIDANPIRG/17 | Secretariat | Completed |
| | **1.5** | Presentation to the ACAO Executive Council | 28-29 Apr 2019 | For support | ACAO | | Completed |
| | **1.6** | Notifying States about MIDANPIRG/17 Conclusion and that the development of ATFM CONOPS started | 30 Apr 2019 | State Letter | ICAO | Chairman | Completed |
| **Key Activity 2**<br><br>Development of CONOPS | **2.1** | Review of the CONOPS V0.1 during ATFM TF/3 | 12 Jan 2020 | ATFM CONOPS draft V0.1 | ATFM TF/3 | | Completed |
| | **2.2** | Further review V0.1 and develop V0.2 for presentation to the ATFM TF/4 | 20 Feb 2020 | ATFM CONOPS draft V0.2 | ATFM Core Team | | Completed |
| | **2.3** | Review V0.2 by the ATFM TF/4 | 20 Sep 2020 | ATFM CONOPS draft V0.2 | | | Completed |
| | **2.4** | Presentation to ACAO ANC | 28 Sep 2020 | For Info and Support | ACAO | | Completed |
| | **2.5** | Development of the CONOPS draft V0.3 | 20 Oct 2020 | Chairperson and Secretariat | | | Completed |
| | **2.6** | Circulate the MID ATFM CONOPS draft V0.3 to ATFM TF members | 20 Oct 2020 | email to TF members for final comments | Secretariat | ACAO | Completed |
| | **2.7** | Feedback form Task Force members on the MID ATFM CONOPS draft V 0.3 | 31 Oct 2020 | Feedback/comments | Task Force members | | Completed |
| | **2.8** | Presentation of MID ATFM CONOPS draft V0.3 to ATM SG/6 for review | 9 Nov 2020 | Consolidated version of ATFM CONOPS V0.3 | Chairman and Secretariat | ATFM Core Team | Completed |
| | **2.9** | Endorsement of the MID ATFM CONOPS V1.0 by MIDANPIRG/18 | Feb 2021 | ATFM CONOPS V1.0 | MIDANPIRG/18 | | Completed |
| | **2.10** | Circulation of the MID ATFM CONOPS V1.0 to States | Mar 2021 | ICAO Doc 014: MID Region ATFM CONOPS v1.0 | posted under ICAO Website | | Completed |
| | **2.11** | Presentation to ACAO Executive Council | 29 – 30 June 2021 | For Info and Support | ACAO | | On-going |

| Key Activities | Action | | Target date | Deliverable | Champion | Supported by | Status / RMKs |
|---|---|---|---|---|---|---|---|
| | No. | Description | | | | | |
| **Key Activity 3**  Development of ATFM Regional Framework and Common Operating Procedures | 3.1 | Development of ATFM Regional Framework and Common Operating Procedures initial draft V0.1 to be presented to the ATM SG/6 | 15 Nov 2020 | ATFM Regional Framework and Common Operating Procedures initial draft V0.1 | Chairperson and Secretariat | | Completed |
| | 3.2 | Circulation of the ATFM Regional Framework and Common Operating Procedures initial draft V0.1 to ATFM TF members | 15 Nov 2020 | email to ATFM TF members for comments | Secretariat | | Completed |
| | 3.3 | Feedback form Task Force members on ATFM Regional Framework and Common Operating Procedures initial draft V0.1 | 15 Dec 2020 | Feedback/comments * consolidate the inputs (after receiving feedback) | | | Completed |
| | | Development of: - ATFM Regional Framework draft V0.2, - ATFM Common Operating Procedures draft V0.2. | 15 Nov 2021 | -ATFM Regional Framework draft V0.2, -ATFM Common Operating Procedures draft V0.2. | ATFM Core Team | Volunteers (States/ ANSPs/ ORGs) | Completed |
| | 3.4 | Presentation to ACAO ANC | Q2 2022 | For Info and Support | ACAO | | |
| | 3.5 | Circulation of the: - ATFM Regional Framework draft V0.3, - ATFM Common Operating Procedures draft V0.3. to ATFM TF members. | | email to ATFM TF members | ICAO | ACAO | Completed |
| | 3.6 | Feedback on V0.3. | | Feedback/comments | ATFM TF members | | Completed |
| | 3.7 | Consolidation of: - ATFM Regional Framework draft V0.4, - ATFM Common Operating Procedures draft V0.4. for presentation to ATM SG/7 meeting. | Nov 2021 | Consolidated version of Draft ATFM Regional Framework and draft Common Operating Procedures | Chairman and Secretariat | Chairman ATFM Core Team | Completed |
| | 3.8 | Presentation to ACAO Executive Council. | TBD | For Info and Support | ACAO | | |
| | 3.9 | Endorsement of MID ATFM Regional | Feb 2022 | ATFM Regional | MIDANPIRG/19 | | Completed |

| Key Activities | Action | | Target date | Deliverable | Champion | Supported by | Status / RMKs |
|---|---|---|---|---|---|---|---|
| | No. | Description | | | | | |
| | | Framework and Common Operating Procedures V1.0 by MIDANPIRG/19 | | Framework and Common Operating Procedures V1.0 | | | |
| | 3.10 | Circulation of the endorsed versions of CONOPS, Regional Framework and Common Operating Procedures and posting on the ICAO MID Website. | Q1 2022 | State Letter | ICAO | ACAO | Completed |
| | 3.11 | Presentation to ACAO Executive Council | May 2022 | For Info and Support | ACAO | | |
| **Key Activity 4** <br> Implementation of ATFM in the MID Region | 4.1 | Development of MID ATM Operational Data Exchange process | 9 Nov 2020 | MID ATM Operational Data exchange | Chairperson and Secretariat | | Completed |
| | 4.2 | Presenting to the MIDANPIRG/18 for endorsement | Feb 2021 | MIDANPIRG Conclusion 18/XX | | | Completed |
| | 4.3 | Establishment of the webpage under ICAO secure portal, including the ATM and Airspace user data | Feb 2021 | Group name | | | Completed |
| | 4.4 | State nominated FPs briefings | June 2021 | | | | Completed |
| | 4.5 | Procedure for Teleconferences between concerned stakeholders to exchange ATM related info | 2022 | Teleconferences to exchange info | ICAO MID | States - IATA | Completed |
| | 4.6 | Implementation of the MID ATFM Regional Framework and Common Operating Procedures | Cont. | Implementation roadmap | States | | On going Phase 1A implementation = 56.5% (as of TF/9) |
| | 4.7 | Implementation of ATFM framework at national level | Cont. | National ATFM framework | States | | On going |
| | 4.8 | Development of Checklist and survey States' compliance | Q2 2023 | Consolidate State compliance with the ATFM checklist | ATFM TF MID State | ICAO MID Office | Completed |
| **Key Activity 5** <br> Post Implementation | 5.1 | Post implementation review | Each 3 months | Post Implementation review | ATFM Core Team | | Where required |
| | 5.2 | Improvement of the ATFM Regional Framework and Common Operating Procedures | 2024 | V 3.0 | ATFM TF | ATFM Core Team | Where required |

| Key Activities | Action | | Target date | Deliverable | Champion | Supported by | Status / RMKs |
|---|---|---|---|---|---|---|---|
| | **No.** | **Description** | | | | | |
| Review of the MID ATFM Regional Framework | **5.3** | Review and continuous improvement of the ATFM Implementation in the MID Region with consideration of establishment of centralized ATFM system for the MID Region | TBD | Continuous improvement | ATFM TF | ATFM Core Team | |
| **Key Activity 6**<br><br>Training and raising awareness related to ATFM | **6.1** | Development of National ATFM Implementation Plan and Training Programme Template for qualifying ATFM Specialist | 2023 | Training Programme Template for ATFM Specialist | MID States | | |
| | **6.2** | Development of working arrangement for the ATFM Visits to States that would include ATFM Workshop and/or training courses | 2023 | working arrangement for the ATFM Visits | MID States | | |
| | **6.3** | Organizing an ATFM Workshop with the A-CDM Workshop | 21-23 Oct 2019 | A-CDM/ATFM Workshop | ICAO | ATFM TF | Completed |
| | **6.4** | Organizing ATFM Workshop/Training /webinars Awareness Courses:<br>- Capacity calculation and declaration<br>- ATFM Publications issues<br>- Flight Planning systems capabilities | Q1 2023 | ATFM Training Awareness/Courses | ICAO | TBD | Completed |
| | **6.5** | Conduct ATFM Support visits to States | 2022 2023 | ATFM Support visits | ATFM support Team | TBD | |
| | **6.6** | Conduct familiarization visits/webinars of ICAO ATM/CDM CADENA, Singapore, India, EUROCONTROL, FAA, etc. | On going | ATFM Familiarization Visits | ACAO ICAO | | |
| **Key Activity 7**<br><br>Identification of Areas of applicability | **7.1** | Based on the level of operations and complexity, the ATFM TF will identify the areas of applicability as priority for implementation support. | 2024 | Categorized priority list, based on operational criteria. | ATFM TF | IATA | |

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**TERMS OF REFERENCE (TOR) OF THE**
**MIDANPIRG AIR TRAFFIC FLOW MANAGEMENT TASK FORCE**
**(ATFM TF)**

## I.    TERMS OF REFERENCE

1.1   Perform a joint assessment and confirmation of the Pre-requisites for a regional ATFM solution, this shall include:

a)   Assessment of the performance objectives of the individual participating States and definition of common performance objectives for a regional ATFM service.

b)   Perform a data collection and analysis to identify hot-spot areas and critical times in a regional ATFM service area where demand consistently exceeds capacity. The reasons and contributing factors for unbalanced demand and capacity are to be identified.

c)   Analysis of air traffic flows within the designated area of the regional ATFM service that is causing unbalanced demand and capacity. The analysis shall identify the traffic fractions that due to their uniformity are candidates for effective ATFM measures to increase the efficiency without violating the equity principle.

1.2   Develop an ATFM Concept of Operations and a Framework which addresses ATFM minimum requirements for the implementation of ATFM in the ICAO MID Region.

1.3   Agree on a mechanism to support the phased implementation of ATFM measures in the MID Region, when and where required.

1.4   Identify, research and recommend appropriate guidance regarding:

a)   Aerodromes and Airspace capacity under the normal circumstances and adjustment factors affecting the capacity;

b)   regular review for all aerodromes and ATC sectors where traffic demand is expected to reach capacity, or is resulting in traffic congestion;

c)   regular review of the implemented ATFM measures and the related publications; to support implementation of the required measures and reflection by the data houses (such as: Flight Planning Systems) and compliance of the airspace users;

d)   mechanisms for ATFM data gathering, and exchanging operational data related to airspaces/aerodromes availability and air operation data between States, ANSPs, Airspace users, Organizations and ICAO, which may include:

i.   adjusted aerodromes and enroute capacity due to factors affecting capacity such as:

- Amid and after crisis management measures (mainly related to ANS Business Continuity Plans and recovery);
- special use airspace status, runway closures; or
- weather phenomena.

    ii.  traffic demand information which may include flight schedules, flight plan data, repetitive flight plan data as well as associated surveillance updates of flight status; and

    iii.  ATFM Daily Plan.

  e)  measure compliance of airspace users with the applicable ATFM measures; and

  f)  any other guidance relevant to the Regional ATFM Framework.

1.5  Consider existing and planned ATFM initiative in the Region and make specific recommendations to ensure their alignment.

1.6  Ensure inter-regional ATFM harmonization with adjacent ICAO Regions.

1.7  Recommend appropriate inputs related to the implementations of ASBU Elements / Threads relevant to ATFM such as NOPS, A-CDM, etc.

1.8  Report to the ATM SG.

1.9  Review periodically its Terms of Reference and propose amendments as necessary.

Coordinate as deemed necessary with the relevant MIDANPIRG Sub-Groups and the Regional initiatives, matters of mutual interest.

## II.  COMPOSITION

2.1  The Task Force is composed of MID ATFM focal points and experts from:

  a)  MIDANPIRG Member States;

  b)  India, FAA, AACO, ACAO, AEROTHAI, CANSO, EUROCONTROL, IATA, and ICAO (Bangkok, Cairo, Paris Offices and HQ); and

  c)  other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

2.2  The Task Force shall elect a Chairperson to act as the point of contact on behalf the Task Force.

2.3  ICAO MID Office will act as the Secretary of the ATFM Task Force meetings.

## III.  WORKING ARRANGEMENTS

3.1  The Chairperson, in close co-operation with the Secretary, shall make all necessary arrangements for the most efficient working of the Task Force. The Task Force shall at all times conduct its activities in the most efficient manner possible with a minimum of formality and paperwork (paperless meetings). Permanent contact shall be maintained between the Chairperson, Secretary and Members of the Task Force to advance the work. Best advantage should be taken of modern communications facilities, particularly videoconferencing (Virtual Meetings) and e-mails.

3.2  Face-to-face meetings will be conducted when it is necessary to do so.

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# ATTACHMENT A

## LIST OF PARTICIPANTS

| State | Name | Title |
|-------|------|-------|
| **BAHRAIN** | Mr. Darren Driemeyer | Manager Air Traffic Operations - DFS |
| **EGYPT** | Mr. Amr Ibrahim Abdel Latiff | ANS Inspector - ECAA |
| | Mr. Gharib Abd Alnaasir Algharib | ATCO - NANSC |
| | Mr. Hesham Zean | |
| | Mr. Mohammad Abdelwahed Ismail | ATCO - NANSC |
| | Mr. Mohamed Farghaly Mohamed | Manager of R&D Directorate - NANSC |
| | Mr. Mohamed Hasanein | |
| | Mr. Walid Said Rawash | ATC Controller, R&D Directorate - NANSC |
| **IRAQ** | Mr. Mohanad Ali Mohammed Jawad | ATFM Manager - GCANS |
| | Ms. Noor Thabet Musaa | Air Traffic Controller/ Flow Management Unit Member - GCANS |
| **JORDAN** | Mr. Ali Taleb | Chief of ATM Training Division |
| | Mr. Sameer Abukhadra | Chief of Air Navigation Procedures Design Division |
| | Mr. Tamer Ahmed Hassan Alnabelsi | ATC & Chief of ANS Airspace Design Division |

| State | Name | Title |
|---|---|---|
| **OMAN** | Ms. Hanaa Sultan Al-Maskari | Chief of HR Planning - ATFM Project Member |
| | Mr. Hilal Ali Al-Maqbali | Acting ATC Director |
| | Mr. Mohammed Rashid Al-Balushi | ATCO - ATFM Project Member |
| **QATAR** | Mr. Andre Marques | ANS Inspector |
| | Mr. Antonio Cardoso | ANS Inspector |
| | Mr. Dhiraj Ramdoyal | Head ANS Inspectorate |
| | Mr. Keith Crawford | ANS/ATFM Advisor |
| | Mr. Pieter Jacobus De Bruyn | Air Traffic Flow Specialist |
| | Dr. Ramy Saad | ANS Inspector |
| **SAUDI ARABIA** | Mr. Ahmad Sami Abughallab | ATFM Chief - SANS |
| | Mr. Khalid Hussain Alharbi | Director of Airspace - GACA |
| **UAE** | Mr. Hamad Rashid Al Belushi | Senior Expert - Air Traffic Management & Chairperson of the ATFM Task Force |
| | Mr. Mohammed Al Madani | Senior Officer - Air Traffic Operations |
| **USA/FAA** | Ms. Almira Ramadani | Sr ATO Representative for Asia Pacific |

| State | Name | Title |
|---|---|---|
| | Mr. Vernon Payne | Command Center, CDM and International Operations Manager (ATFM Focus), Federal Aviation Administration, Air Traffic Organization |

| Org. / Industry | Name | Title |
|---|---|---|
| **AEROTHAI** | Mr. Piyawut Tantimekabut (Toon) | ATM Network Manager, AEROTHAI<br>Chair, ICAO APAC ATFM Steering Group |
| **CANSO** | Mr. Stuart Ratcliffe | Global ATFM/A-CDM WG Co-Chair |
| **IATA** | Ms. Zainab Khudhair | Manager Operations, ATM and Infrastructure (AME) |
| | Mr. Abbas Abedin Khandwawala | NAV & ATM Specialist, Air Rabia Group PJSC |
| **ICAO MID** | Mr. Ahmad Amireh | Regional Officer, Air Traffic Management and Search and Rescue (RO/ATM/SAR) |
| | Mr. Ahmed Kavehfirouz | Regional Officer, Air Traffic Management (RO/ATM) |
| | Ms. Dina El Karimy | Technical Assistant (ATM/SAR & ASF) |

- END -