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Международная
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гражданской
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منظمة الطيران
المدنى الدولى

国际民用
航空组织

File Ref.: ME 3/2.1 & ME 3/2.1.2 – 18/045

11 February 2018

Subject: **Fourth Meeting of the MIDANPIRG ATM Sub-Group (ATM SG/4) and Third Meeting of the Advanced Inter-Regional ATS Route Development Task Force (AIRARD TF/3)**
(Amman, Jordan, 29 April – 03 May 2018)

Action Required: **Reply not later than 10 April 2018**

Sir/Madam,

I have the honour to invite your Administration/Organization to participate in the Fourth meeting of the MIDANPIRG Air Traffic Management Sub-Group (ATM SG/4) and the Third meeting of the Advanced Inter-Regional ATS Route Development Task Force (AIRARD TF/3) that will be kindly hosted by the Civil Aviation Regulatory Commission (CARC) of Jordan. The meeting will be held in Amman, Jordan from **29 April to 03 May 2018**. The exact venue will be communicated at a later stage.

The Provisional Agendas for the meetings and the Terms of Reference of the ATM Sub-Group and the AIRARD TF are at **Attachments A, B, C and D**, respectively. Your comments on the attached provisional agenda, including any amendment you may wish to suggest, would be appreciated. The Bulletin of the meeting that includes administrative arrangements for the meeting and other useful information for participants, including the Hotel List will be circulated at a later stage.

This letter, all its relevant attachments and Working/Information Papers (as they become available), will be posted in PDF format on the ICAO MID website at: www.icao.int/mid.

In accordance with the approved procedures, as specified in the MIDANPIRG Procedural Handbook, Sub-Groups of MIDANPIRG shall be composed of experts able to contribute to the work of the Sub-Group. For more effectiveness, I shall be grateful if you could ensure that your delegation consists of experts familiar with ICAO documentations and policies, having the required qualifications and experience in the fields of ATM and SAR.

The attendance of your States' military authority to this meeting is highly encouraged.

The AIRARD TF/3 meeting will be supported by the ICAO APAC, EUR/NAT and MID Regional Offices. The meeting is expected to discuss/coordinate the inter-regional aspects of the ATS route network and ATM issues at the interfaces of the three ICAO Regions, follow-up on the outcome of the AIRARD TF/2 meeting (Astana, Kazakhstan, 26-27 October 2017) and agree on an action plan to enhance the airspace management issues at the relevant interfaces.

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The work programme of the meeting will provide an opportunity for bilateral side-meetings between adjacent States to discuss issues of mutual interest such as the update of the ATS Letter of Agreements.

In order to make the meeting more productive and effective, your Administration/Organization is encouraged to participate actively in the work of the meetings by submitting working/information papers and/or presentations covering subjects contained in the provisional agenda. I would be grateful to receive your papers in an electronic format prior to **10 April 2018** in order to allow time for processing and advance posting on the web. In the event that papers are received after **25 April 2018**, these will normally be treated as a flimsy and may not be presented in plenary.

I would appreciate if you could, as soon as possible, preferably not later than **10 April 2018**, confirm the participation of your Administration/Organization by submitting the Nomination Form at **Attachment E** to the following email address (icaomid@icao.int) with a copy to (ekhoury@icao.int).

Accept, Sir/Madam, the assurances of my highest consideration.



Mohamed Khalifa Rahma
Middle East Regional Director

Attachments



International Civil Aviation Organization

MIDANPIRG Air Traffic Management Sub-Group

Fourth Meeting (ATM SG/4)
(Amman, Jordan, 29 April – 3 May 2018)

PROVISIONAL AGENDA

- Agenda Item 1: Adoption of the Provisional Agenda**
- Agenda Item 2: Follow-up on MIDANPIRG/16 and ATM SG/3 Conclusions and Decisions**
- Agenda Item 3: Global and Regional Developments related to ATM**
- The meeting will be apprised of the global and regional activities related to ATM and SAR.
- Agenda Item 4: MID Region ATS Route Network**
- States will present an update on the implemented/planned changes related to their ATS route network. The benefits accrued from the implementation of the ATS routes improvements such as saving in time and/or distance, reduction in CO₂ emission, would be highlighted. The challenges that might delay the implementation of the planned routes would also be addressed.
 - IATA will present the updated version of the MID Route Catalogue.
 - The meeting will review and update, as deemed necessary, the MID Region ATM Contingency Plan.
- Agenda Item 5: Airspace Management Issues**
- Review and update, as deemed necessary, the MID Region PBN implementation Plan Parts related to en-route.
 - Civil/Military Cooperation and Flexible Use of Airspace.
 - Air Traffic Flow Management.
 - SIDs and STARs new phraseology.
 - AIDC/OLDI implementation.
 - Radar Longitudinal Separation.
 - Review and update of the MID Region’s High Level Airspace Concept.
 - Review and propose amendments to the MID Region Air Navigation Strategy Parts related to ATM.
 - Review and propose amendments to the MID Air Navigation Plan Parts related to ATM.

Agenda Item 6: ATM Safety Matters

- RVSM implementation.
- Call Sign Confusion.
- SMS implementation for ATS.
- English Language Proficiency for ATCOs and SAR experts;
- Remotely Piloted Aircraft System

Agenda Item 7: SAR Issues

- Review and update the status of SAR in the MID Region
- Review the MID SAR Plan developed by the MID SAR Action Group
- Review and propose amendments to the MID Air Navigation Plan Parts related to SAR

Agenda Item 8: Review of Air Navigation Deficiencies in the ATM and SAR fields

The meeting will review and update the list of air navigation deficiencies in the ATM and SAR fields, which have been identified in the MID Region, and propose actions, as appropriate.

Agenda Item 9: Future Work Programme

The meeting will review and update, as deemed necessary, the Terms of Reference of the ATM Sub-Group. The meeting will agree on the dates and venue of the ATM SG/5 meeting.

Agenda Item 10: Any other Business



International Civil Aviation Organization

Advanced Inter-Regional ATS Route Development Task Force

Third Meeting (AIRARD TF/3)
(Amman, Jordan, 1 – 3 May 2018)

PROVISIONAL AGENDA

- Agenda Item 1:** Adoption of the Provisional Agenda
- Agenda Item 2:** Background, Concept and Drivers
- Agenda Item 3:** Short/Medium Term Inter-Regional Route Developments
- Agenda Item 4:** ANS and Aircraft Capability and Performance Expectations
- Agenda Item 5:** Identification of Key Stakeholders and Actions (Gap Analysis, etc.)
- Agenda Item 6:** Free Route Airspace Concept Implementations
- Agenda Item 7:** Aeronautical Data and Other Relevant ATM Safety Issues
- Agenda Item 8:** Any Other Business
- Agenda Item 9:** Task List
- Agenda Item 10:** Date and Venue of Next Meeting
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**TERMS OF REFERENCE (TOR) OF
AIR TRAFFIC MANAGEMENT SUB-GROUP
(ATM SG)**

1. TERMS OF REFERENCE

1.1 The Terms of Reference of the ATM Sub-Group are:

- a) ensure that the planning and implementation of ATM in the MID Region is coherent and compatible with developments in adjacent regions, and is in line with the Global Air Navigation Plan (GANP), the Aviation System Block Upgrades (ASBU) methodology and the MID Region Air Navigation Strategy;
- b) monitor the status of implementation of the MID Region ATM-related ASBU Modules included in the MID Region Air Navigation Strategy as well as other required ATM facilities and services, identify the associated difficulties and deficiencies and provide progress reports, as required;
- c) keep under review the MID Region ATM performance objectives/priorities, develop action plans to achieve the agreed performance targets and propose changes to the MID Region ATM plans/priorities, through the ANSIG;
- d) seek to achieve common understanding and support from all stakeholders involved in or affected by the ATM developments/activities in the MID Region;
- e) provide a platform for harmonization of developments and deployments in the ATM domain;
- f) based on the airspace user needs and in coordination with stakeholders (States, International Organizations, user representative organizations and other ICAO Regions), identify requirements and improvements for achieving and maintaining an efficient route network in the MID Region;
- g) foster and initiate actions aimed at improving civil/military cooperation and Flexible Use of Airspace (FUA) implementation;
- h) keep under review the adequacy of requirements in Search and Rescue field, taking into account, *inter alia*, changes to aircraft operations and new operational requirements or technological developments;
- i) ensure the effectiveness of the SSR code allocation system in the MID Region;
- j) identify, State by State, those specific deficiencies that constitute major obstacles to the provision of efficient air traffic management and recommend specific measures to eliminate them;
- k) develop the MID Region ATM Contingency Plan and ensure that its maintained up to date;

- l) monitor the implementation of the MID Region ASBU Modules included in the MID Region Air Navigation Strategy related to the ATM, provide expert inputs for ATM related issues; and propose solutions for meeting ATM operational requirements;
- m) monitor and review the latest developments in the area of ATM;
- n) provide regular progress reports to the ANSIG Group and MIDANPIRG concerning its work programme; and
- o) review periodically its Terms of Reference and propose amendments as necessary.

1.2

In order to meet the Terms of Reference, the ATM Sub-Group shall:

- a) provide necessary assistance and guidance to States to ensure harmonization and interoperability in line with the GANP, the MID ANP and ASBU methodology;
- b) provide necessary inputs to the MID Air Navigation Strategy through the monitoring of the agreed Key Performance Indicators related to ATM;
- c) review the MID ATS Routes Network in order to assess its capacity and constraints;
- d) identify requirements and improvements for achieving and maintaining an efficient ATS route network in the MID Region;
- e) propose a strategy and prioritized plan for development of improvements to the route network, highlighting:
 - areas that require immediate attention
 - interface issues with adjacent ICAO Regions
- f) develop a working depository for route proposals that will be used as a dynamic reference document for ongoing discussions on routes under development/modification. In this respect, the Task Force should explore the utility that can be realized from the route catalogue concept/ATS routes database;
- g) engage the necessary parties regarding routes under consideration, especially the Military Authorities;
- h) promote civil/military cooperation and the implementation of the concepts of Flexible Use of Airspace (FUA), free flight, flexible tracks;
- i) facilitate effective civil/military cooperation and joint use of airspace in the MID Region;
- j) in coordination with the MIDRMA, carry out safety assessment of the proposed changes to the ATS Routes Network;
- k) submit completed route proposals for amendment of the Basic ANP Table ATS-1, to the ICAO MID Regional Office for processing;
- l) monitor the RVSM operations and support the continued safe use of RVSM in the MID Region;

- m) review and maintain the MID Region SSR Code Allocation Plan and monitor the implementation of the SSR codes allocation procedures in the Region;
- n) assist States in the development and co-ordination of contingency plans and ensure that the Regional contingency plan is maintained up-to-date;
- o) assess the effectiveness of the agreed Contingency measures/procedures and propose mitigation measures, as appropriate;
- p) address ATM and SAR interface issues with other regions and make specific recommendations to achieve seamlessness and harmonization;
- q) review the requirements and monitor the status of implementation of ATM and SAR services;
- r) analyse, review and monitor deficiencies in the ATM and SAR fields;
- s) develop proposals for the updating of relevant ICAO documentation, including the amendment of relevant parts of the MID ANP, as deemed necessary;
- t) establish and monitor ATM performance objectives for the MID Region; and
- u) taking into account human factors studies and available guidance material, make operational recommendations related to ATM personnel in the changing technological environment.

2. COMPOSITION

2.1 The Sub-Group is composed of:

- a) MIDANPIRG Member States;
- b) experts nominated by Middle East Provider States from both Civil Aviation Authority and Military Authority;
- c) concerned International and Regional Organizations as observers; and
- d) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

**TERMS OF REFERENCE (TOR) OF
Advanced Inter-Regional ATS Route Development Task Force (AIRARD/TF)**

1. TERMS OF REFERENCE**1.1 The terms of reference of the AIRARD Task Force are to:**

- a) identify requirements and improvements for achieving and maintaining an efficient route network across the ICAO APAC, EUR/NAT and MID Regions based on the airspace user needs and in coordination with stakeholders (States, International Organizations, user representative organizations and other ICAO Regions);
- b) ensure harmonized planning and implementation of ATS routes and airspace improvement projects at the interfaces between the three ICAO Regions;
- c) monitor the status of implementation of the agreed ATS routes and airspace improvement projects;
- d) in case of implementation problems, identify the associated difficulties and propose/agree to solutions to further progress with the implementation;
- e) review and amend the components of the ATS route structure and airspace description in order to ensure their compliance with ICAO provisions (e.g. five-letter name-code (5LNC) uniqueness, ATS route designators, WGS-84 coordinates, flexible use of airspace (FUA) implementation);
- f) discuss and support the implementation of new concepts, such as the PBN Highway concept;
- g) determine the CNS requirements, interoperable entry/exit points or areas, connections into the TMAs, weather related issues, terrain aspects, airspace organisation which would be needed in order to support the implementation of the new concepts;
- h) achieve common understanding and support from all stakeholders involved in or affected by the ATM developments/activities in the three ICAO Regions; and
- i) use the AIRARD/TF meetings as a forum for bilateral and multilateral discussions (such as review of ANS Letters of Agreements).

1.2 In order to meet the Terms of Reference, the AIRARD Task Force shall:

- a) Discuss and review the ATS route network and airspace improvement projects which involve States (including the Military) and all aviation stakeholders (airspace users, international organisations and Computer Flight Plan Software/Service Providers (CFSPs)) across the three Regions;
- b) propose a strategy and prioritized plan for development of improvements to the route network and/or airspace structure, highlighting:
 - areas that require immediate attention (solution of safety, capacity or complexity constraints);
 - interface issues with adjacent ICAO Regions;
- c) monitor and report on the implementation status of the prioritized plan;
- d) develop a roadmap for the implementation of new concepts such as the PBN highways;

- e) develop a working depository for route proposals that will be used as a dynamic reference document for ongoing discussions on routes under development/modification. In this respect, the Task Force should explore the utility that can be realized from the route catalogue concept/ATS routes database; and
- f) address CNS and ATM interface issues with other regions and make specific recommendations to achieve a harmonized and interoperable environment in the interface areas between the regions.

1.3 In order to effectively perform its tasks and responsibilities:

- a) The AIRARD TF shall elect Co-Chairpersons (one from a State and one from the airspace users) for a cycle of three meetings, unless otherwise re-elected.
- b) The TF shall meet at least once a year and/or when deemed necessary.
- c) The TF meetings should be hosted by its members on rotation basis.
- d) The TF shall report to the relevant ATM Groups in the APAC and MID Regions under the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG), the European Air Navigation Planning Group (EANPG), North Atlantic Systems Planning Group (NAT SPG) and the Middle East Air Navigation Planning and Implementation Regional Group (MIDANPIRG).

2. COMPOSITION

The AIRARD Task Force is composed of:

- a) States from APAC, EUR/NAT and MID Regions, or States providing services in the APAC, EUR/NAT and MID Regions;
- b) concerned International and Regional Organizations; and
- c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

INTERNATIONAL CIVIL AVIATION ORGANIZATION
MID REGIONAL OFFICE

FOURTH MEETING OF THE MIDANPIRG ATM SUB-GROUP AND
THIRD MEETING OF THE ADVANCED INTER-REGIONAL ATS ROUTE DEVELOPMENT
TASK FORCE

(ATM SG/4) & (AIRARD TF/3)

(Amman, Jordan, 29 April – 3 May 2018)

NOMINATION FORM

Please indicate which event(s) you will attend:

ATM SG/4

AIRARD TF/3

PLEASE PRINT OR TYPE CLEARLY

1. Name in full: _____
Mr. / Mrs. / Ms. (as should appear in the official listing and name tag)

2. Title or Official Position: _____

3. State/Organization: _____

4. Mailing Address: _____

5. Telephone Number: _____

Mobile: _____

E-mail: _____

6. Hotel _____

Date: Signature:

After completing, please send to: ICAO MID Office at the following e-mail address: (icaomid@icao.int) with copy to (ekhoury@icao.int).

Note 1: Participants are expected to make their own hotel/visa arrangements.

Note 2: Please download meeting materials from ICAO MID Regional Office website.

Note 3: No hardcopies will be provided; you are kindly requested to bring your laptop, iPad, tablet, etc. to the meeting.