



International Civil Aviation Organization

**MIDANPIRG CNS/ATM/IC Sub-Group  
(CNS/ATM/IC SG)**

**Seventh Meeting  
(Cairo, Egypt, 07 – 09 October 2013)**

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**Agenda Item 7: Future Work Programme**

**FUTURE WORK PROGRAMME**

*(Presented by the Secretariat)*

**SUMMARY**

The aim of this paper is to propose new Terms of Reference (TOR) for the ATM Measurement Sub Group (ATMM SG) and Performance Based Navigation Sub Group (PBN SG) taking into consideration the new MIDANPIRG Organizational Structure.

Action by the meeting is at paragraph 3.

**REFERENCES**

- MIDANPIRG/13 Report
- MIDANPIRG Procedural Handbook
- MSG/3 Report

**1. INTRODUCTION**

1.1 In accordance with the MIDANPIRG Procedural Handbook, the CNS/ATM/IC Sub Group is expected to review and update, as necessary, its Terms of Reference and to decide on the dates and venue of its next meeting.

**2. DISCUSSION**

2.1 The meeting may wish to note that taking into consideration the global developments related to air navigation planning and implementation and performance monitoring of the air navigation systems, and in order to increase the efficiency of MIDANPIRG, the Third Meeting of the MIDANPIRG Steering Group (MSG/3) reviewed several proposals related to a new MIDANPIRG Organizational Structure and agreed that the proposals at **Appendices A** and **B** to this working paper, be further reviewed and considered. The meeting agreed that new Terms of Reference of the different MIDANPIRG subsidiary bodies should be developed and necessary amendments should be reflected in the MIDANPIRG Procedural Handbook.

2.2 Based on the above, the MSG/3 meeting agreed to the following Draft Conclusion:

*DRAFT CONCLUSION 3/2: MIDANPIRG REVISED ORGANIZATIONAL STRUCTURE*

*That, States:*

- a) *review the two (2) proposals at Appendices 4B and 4C to the Report on Agenda Item 4 related to the revised MIDANPIRG Organizational Structure; and*
- b) *inform the ICAO MID Regional Office, before 31 August 2013 on the preferred Organizational Structure and provide inputs related to the Terms of Reference of the different MIDANPIRG subsidiary bodies*

2.3 Accordingly, the ICAO MID Regional Office issued State Letter Ref.: ME 3/56 – 13/170 dated 3 July 2013, requesting States to advise ICAO MID Regional Office about their preferred Organizational Structure (Proposal A or B). Likewise, States were requested to provide their inputs related to the Terms of Reference of the different MIDANPIRG subsidiary bodies according to the new Organizational Structure before 31 August 2013, which will be presented to MIDANPIRG/14.

2.4 Based on the above, Nine (9) replies from States were received on the preferred new MIDANPIRG Organizational Structure, the results were as follows:

- eight (8) States with Proposal A; and
- one (1) State with Proposal B.

2.5 The meeting may wish to note that in accordance with the new MIDANPIRG Organizational Structure (Option A), the Draft Terms of Reference at **Appendices C, D and E** to this working paper are proposed for the ANSIG, ATMM SG and PBN SG, respectively.

### **3. ACTION BY THE MEETING**

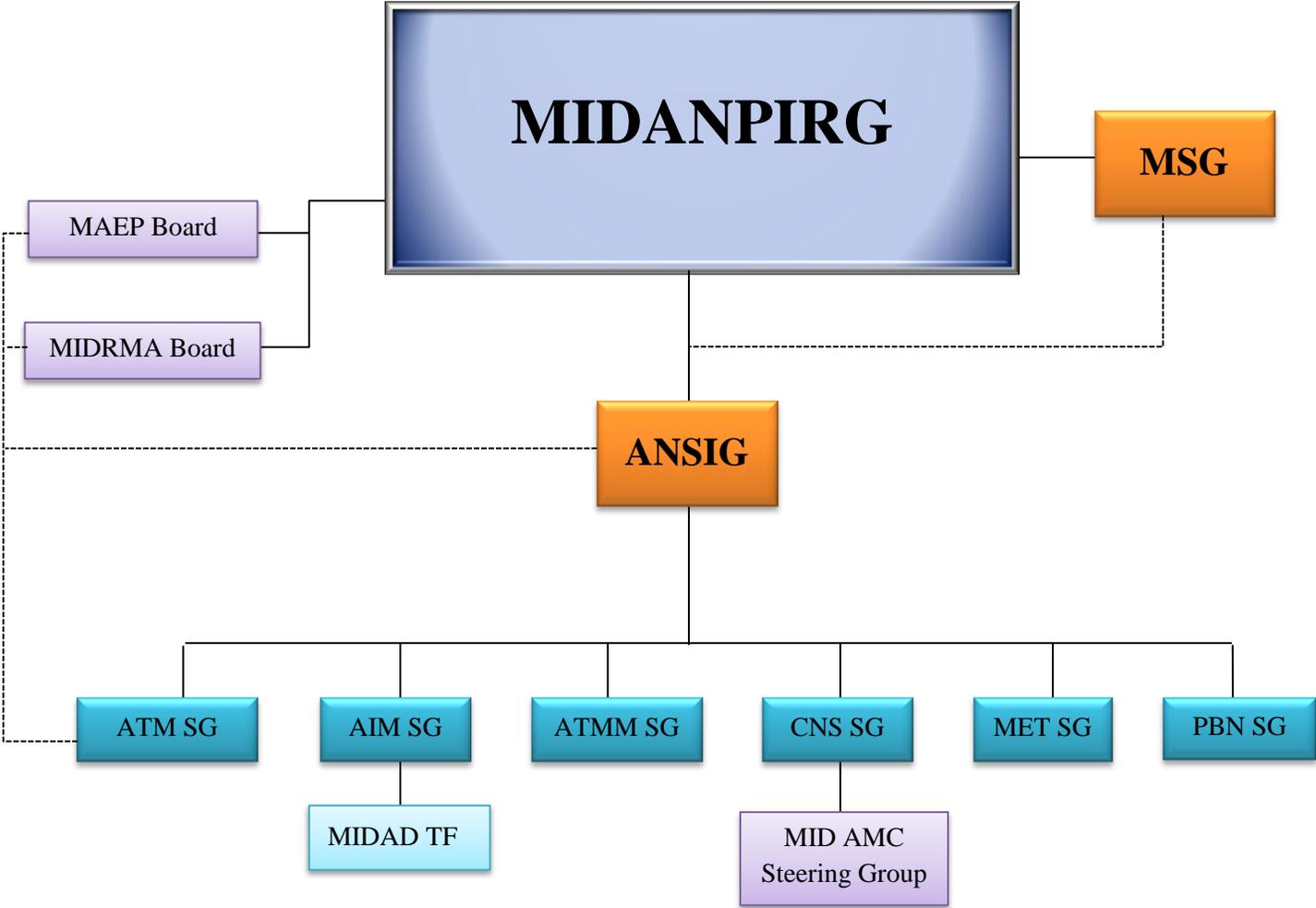
3.1 The meeting is invited to:

- a) review and provide comments on the TOR of the ANSIG, ATMM SG and PBN SG at **Appendices C, D and E** to this working paper; and
- b) agree that the exact dates, duration and venue of the ATMM SG and PBNSG meetings will be determined by the Secretariat in due course.

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**APPENDIX A**

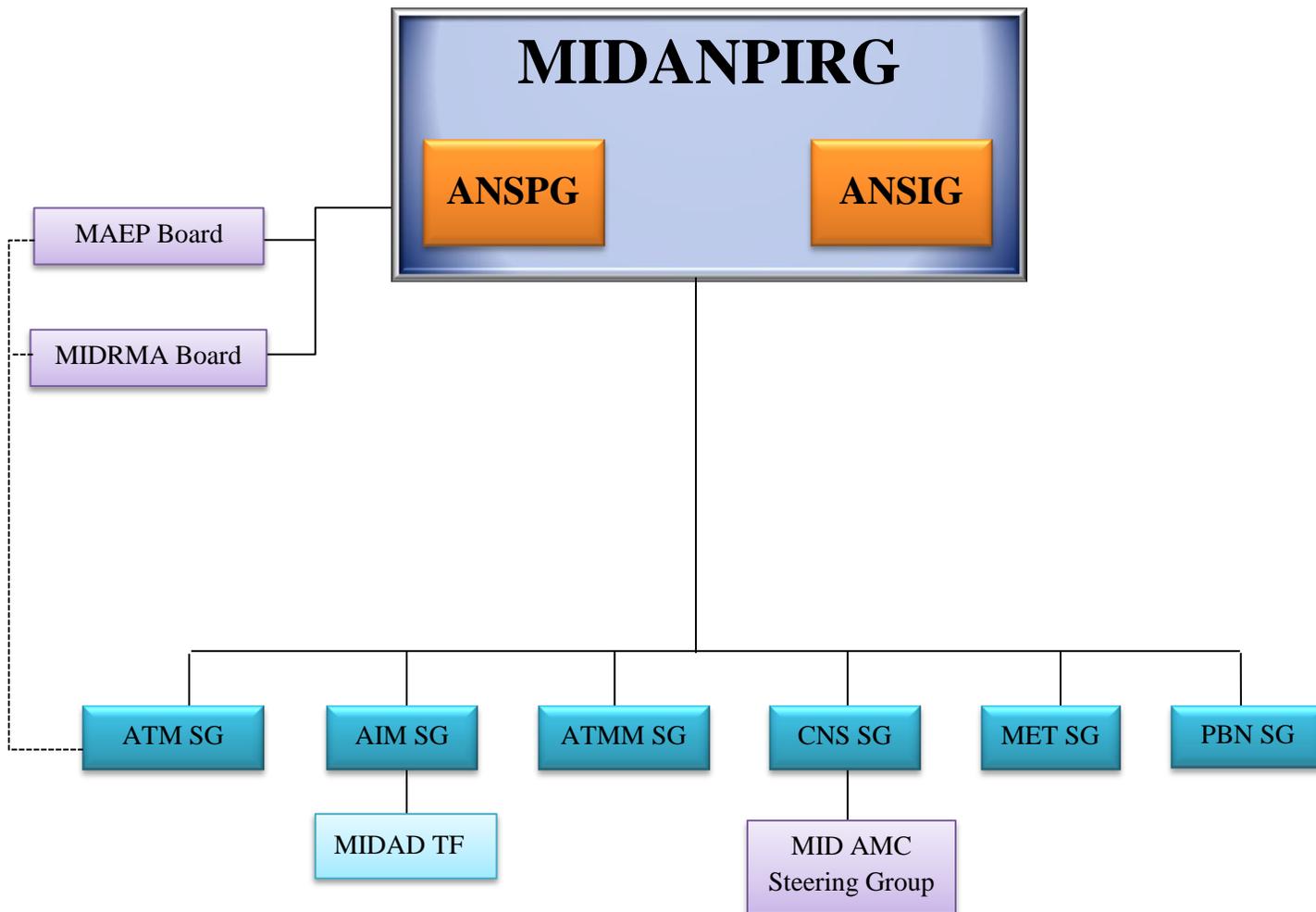
**PROPOSAL A**



MSG	MIDANPIRG Steering Group	MET SG	Meteorology Sub-Group
ANSIG	Air Navigation Systems Implementation Group	PBN SG	Performance Based Navigation Sub-Group
AIM SG	Aeronautical Information Management Sub-Group	MIDAD TF	MID Region AIS Database Task-Force
ATM SG	Air Traffic Management Sub-Group	MAEP Board	MID Region ATM Enhancement Programme Board
ATMM SG	Air Traffic Management Measurement Sub-Group	MIDRMA Board	Middle East Regional Monitoring Agency Board
CNS SG	Communication Navigation Surveillance Sub-Group	MID AMC Steering Group	MID Region ATS Message Management Centre Steering Group

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**PROPOSAL B**



ANSIG	Air Navigation Systems Implementation Group	MET SG	Meteorology Sub-Group
ANSPG	Air Navigation Systems Planning Group	PBN SG	Performance Based Navigation Sub-Group
AIM SG	Aeronautical Information Management Sub-Group	MIDAD TF	MID Region AIS Database Task-Force
ATM SG	Air Traffic Management Sub-Group	MAEP Board	MID Region ATM Enhancement Programme Board
ATMM SG	Air Traffic Management Measurement Sub-Group	MIDRMA Board	Middle East Regional Monitoring Agency Board
CNS SG	Communication Navigation Surveillance Sub-Group	MID AMC Steering Group	MID Region ATS Message Management Centre Steering Group

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## APPENDIX C

### TERMS OF REFERENCE (TOR) OF AIR NAVIGATION SYSTEMS IMPLEMENTATION GROUP (ANSIG)

#### 1. TERMS OF REFERENCE

##### 1.1 The Terms of Reference of the ANSIG are:

- a) ensure that the implementation of Air Navigation Systems in the MID Region is coherent and compatible with developments in adjacent regions, and is in line with the ATM Operational Concept (Doc 9854), Global Air Navigation Plan (GANP), the Aviation System Block Upgrades (ASBU) methodology and the MID Region Air Navigation Plan/Strategy;
- b) monitor the status of implementation of the MID Region Air Navigation Systems and related ASBU Modules included in the MID Region Air Navigation Plan/Strategy as well as other required Air Navigation facilities and services, identify the associated difficulties and deficiencies and provide progress reports, as required;
- c) keep under review the MID Region Air Navigation Strategy, and propose changes to the MID Region Air Navigation Plan/Strategy and Air Navigation priorities, as appropriate;
- d) seek to achieve common understanding and support from all stakeholders involved in or affected by the Air Navigation Systems developments/activities in the MID Region;
- e) provide a platform for harmonization of developments and deployments of the MID Air Navigation Systems;
- f) monitor and review the latest Air Navigation developments and provide expert inputs for the implementation of the Air Navigation Systems based on ATM operational requirements;
- g) ensure that the work programmes of all Subsidiary Bodies reporting to ANSIG are harmonized and coordinated, achieving the agreed air navigation performance targets;
- h) provide regular progress reports to the MSG and MIDANPIRG concerning its work programme; and
- i) review periodically its Terms of Reference and propose amendments, as necessary.

##### 1.2 In order to meet the Terms of Reference, the ANISG shall:

- a) agree on the necessary data to be collected for monitoring the MID Key Performance Indicators and Metrics;

- b) monitor the status of implementation of the different ASBU Module elements included in the MID Air Navigation Plan/Strategy and ensure that the associated performance targets are met;
- c) consolidate inputs from all Subsidiary Bodies and propose changes to the Plan/Strategy and Air Navigation priorities, as appropriate;
- d) provide necessary assistance and guidance to States to ensure harmonization and interoperability in line with the GANP, the MID ANP and ASBU methodology;
- e) Develop and continuously update the MID regional Air Navigation Report Forms (ANRF) in order to reflect the MID Region Performance Objectives;
- f) review and identify intra and inter-regional co-ordination issues and where appropriate recommend actions to address those issues;
- g) identify the environmental effect and use the guidance provided by the Committee on Aviation Environmental Protection (CAEP) in the analysis of environmental benefits of implementing Air Navigation Systems; and
- h) foster the integrated improvement of MID Air Navigation systems implementation through proper training and qualification of the personnel

## **2. COMPOSITION**

2.1 The Sub-Group is composed of:

- a) MIDANPIRG Member States;
- b) concerned International and Regional Organizations as observers; and
- c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

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## APPENDIX D

### TERMS OF REFERENCE (TOR) OF AIR TRAFFIC MANAGEMENT-MEASUREMENT SUB-GROUP (ATMM SG)

#### 1. TERMS OF REFERENCE

##### 1.1 The Terms of Reference of the ATMM Sub-Group are:

- a) develop the MID Regional Air Navigation environmental Reports based on the benefits accrued from operational improvements, using IFSET;
- b) provide regular progress reports to the ANSIG and MIDANPIRG concerning its work programme; and
- c) review periodically its Terms of Reference and propose amendments, as necessary.

##### 1.2 In order to meet the Terms of Reference, the ATMM Sub Group shall:

- a) follow-up the implementation of the ATM operational improvements required in the MID Air Navigation Strategy and Regional Air Navigation Plan (ANP) or in national plans and to place special emphasis on identifying and estimating the fuel savings accrued from the corresponding improvements;
- b) carry out permanent coordination with various MIDANPIRG contributory bodies in order to ensure appropriate integration of all tasks contributing to the estimation of environment benefits related to the implementation of the ANP or national operational improvements;
- c) harmonize, at a regional level, the estimation of the environment benefits from operational improvements in order to reach consistent results;
- d) collect and analyse the data related to the implemented operational improvements provided by States and users;
- e) use the IFSET to generate the MID Regional Air Navigation environmental Reports;
- f) develop proposals to keep and upgrade the ICAO Fuel Savings Estimation Tool (IFSET) as necessary; and
- g) keep under review the MID Region ATM performance objectives/priorities related to environmental benefits, and propose changes through the ANSIG, as appropriate.

#### 2. COMPOSITION

##### 2.1 The Sub-Group is composed of:

- a) MIDANPIRG Member States;
  - b) concerned International and Regional Organizations as observers; and
  - c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.
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## APPENDIX E

### TERMS OF REFERENCE (TOR) OF PERFORMANCE BASED NAVIGATION SUB-GROUP (PBN SG)

#### 1. TERMS OF REFERENCE

##### 1.1 The Terms of Reference of the PBN Sub-Group are:

- a) ensure that the implementation of PBN 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 PBN-related ASBU Modules included in the MID Region Air Navigation Strategy as well as other required PBN supporting infrastructure, identify the associated difficulties and deficiencies and provide progress reports, as required;
- c) keep under review the MID Region PBN performance objectives/priorities, develop action plans to achieve the agreed performance targets and propose changes to the MID Region PBN plans/priorities, through the ANSIG, as appropriate;
- d) seek to achieve common understanding and support from all stakeholders involved in or affected by the PBN and GNSS developments/activities in the MID Region;
- e) provide a platform for harmonization of developments and deployments of PBN;
- f) monitor and review the latest developments in the area of PBN and procedure design, provide expert inputs for PBN-related issues; and propose solutions for meeting ATM operational requirements;
- g) monitor and review the latest GNSS developments and activities;
- h) carry out necessary studies for the establishment of a MID Flight Procedure Programme Office;
- i) provide regular progress reports to the ANSIG and MIDANPIRG concerning its work programme; and
- j) review periodically its Terms of Reference and propose amendments, as necessary.

**1.2 In order to meet the Terms of Reference, the PBN 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 PBN;
- c) identify and review those specific deficiencies and problems that constitute major obstacles to the provision of efficient PBN implementation, and recommend necessary remedial actions;
- d) develop and lead the work programme of the MID PBN Support Team (MPST) including the conduct of MPST visits;
- e) assist States that may require support in the implementation of PBN, through MPST support teams;
- f) conduct study related to the establishment of the MID Flight Procedure Programme office;
- g) monitor the progress of studies, projects, trials and demonstrations by the MID Region States, and other ICAO Regions in PBN and GNSS;
- h) study requirements for GNSS Augmentation Systems in the MID Region, and develop implementation plans; and
- i) foster the implementation of PBN through proper training and qualification of the procedure design personnel and all other personnel involved in PBN implementation.

**2. COMPOSITION**

2.1 The Sub-Group is composed of:

- a) MIDANPIRG Member States;
- b) concerned International and Regional Organizations as observers; and
- c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.