MIDANPIRG Communication, Navigation and Surveillance Sub-Group Fourteenth Meeting

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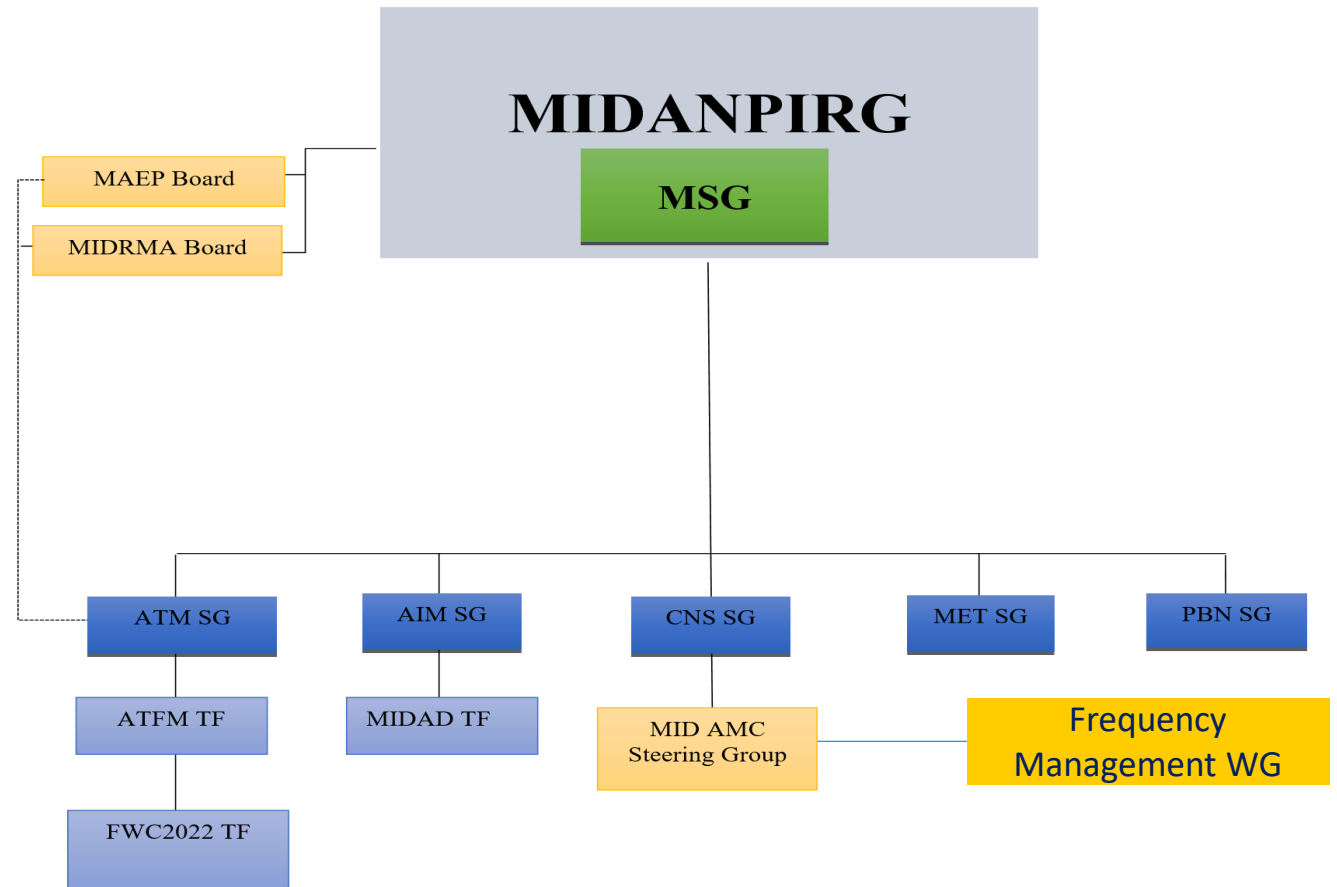
& MID Region CNS Focal Point

MIDANPIRG Communication, Navigation and Surveillance Sub-Group Fourteenth Meeting
CNS SG/14 (Abu Dhabi, UAE, 19 – 23 October 2025)

CNS SG
MIDAMC
FM WG

MIDANPIRG ORGANIZATIONAL CHART

CNS SG / MID AMC / FM WG : The Way Forward

Communication Surveillance & Navigation

CNS SG TORs

MID ATS Messaging Management Centre Steering Group

MID AMC TORs

Frequency Management Working Group

FM WG TORs

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Interdependencies and Coordination Mechanisms Overview: Group Discussion

CNS Component	Lead Mechanism	Supporting Mechanisms	Coordination Examples (per TOR)
Communication	**CNS SG**	**MIDAMC STG, FM WG**	CNS SG sets regional CNS implementation in line with GANP/ASBU and follows up MIDAMC operations; MIDAMC STG operates AMHS/CRV and provides guidance/materials; FM WG manages COM-spectrum assignments/conflicts.
Navigation	**CNS SG**	**FM WG**	CNS SG follows global GNSS evolution and supports States; FM WG protects GNSS signals and proposes timely interference solutions (incl. 5G).
Surveillance	**CNS SG**	**FM WG**	CNS SG follows up surveillance technologies and addresses technical/operational/regulatory issues to facilitate services; FM WG supports with spectrum planning/assignments for CNS systems.
Frequency Management	**FM WG**	**CNS SG**	FM WG develops the MID frequency assignment plan, validates/maintains the global database, resolves conflicts, and supports ICAO position at ITU/WRC; CNS SG provides strategic CNS oversight and receives FM WG recommendations.

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Coordination Dynamics (CNS-Centric View): Group Discussion

CNS Component	Lead Mechanism	Supporting Mechanisms	Coordination Examples
Communication	CNS SG	MIDAMC STG, FM WG	CNS SG sets communication strategies and oversees AMHS evolution. MIDAMC STG manages operational network and provides technical data; FM WG ensures VHF, HF, and datalink frequencies are assigned properly.
Navigation	CNS SG	FM WG	CNS SG monitors GNSS and navigation system implementation. FM WG protects GNSS signals and resolves interference (including 5G issues).
Surveillance	CNS SG	FM WG	CNS SG ensures harmonized deployment of radar, ADS-B, MLAT; FM WG ensures proper frequency allocations for surveillance datalinks.
Frequency Management	FM WG	CNS SG	FM WG develops and maintains the MID Region frequency plan; CNS SG validates alignment with CNS objectives and ensures operational needs (COM/NAV/SUR) are supported.

Action by the Meeting

The meeting is invited to:

a) Review the current coordination workflow among the CNS Sub-Group (CNS SG), the MID ATS Messaging Management Centre Steering Group (MIDAMC STG), and the Frequency Management Working Group (FM WG), taking into account their respective Terms of Reference (TORs) and interdependencies.

b) Provide guidance on the Way Forward for these bodies establishing a clear and efficient coordination mechanism that ensures complementarity of functions, avoids duplication of effort, and strengthens the alignment of activities under the MIDANPIRG framework.

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COMMUNICATION, NAVIGATION AND SURVEILLANCE SUB-GROUP (CNS SG)

1. TERMS OF REFERENCE

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

a)   ensure that the implementation of CNS 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) framework and the MID Region Air Navigation Strategy;

b)   monitor the status of implementation of the MID Region CNS-related ASBU Modules included in the MID Region Air Navigation Strategy as well as other required CNS supporting infrastructure, identify the associated difficulties and deficiencies and provide progress reports, as required;

c)   keep under review the MID Region CNS performance objectives/priorities, develop action plans to achieve the agreed performance targets and propose changes to the MID Region CNS plans/priorities, modernization programmes through the MIDANPIRG, as appropriate;

d)   seek to achieve common understanding and support from all stakeholders and involved in or affected by the CNS developments/activities in the MID Region;

e)   provide a platform for harmonization of developments and deployments of CNS facilities and procedures within Region and inter regional;

f)   monitor and review the latest developments in the area of CNS, provide expert inputs for CNS-related issues; and propose solutions for meeting ATM operational requirements;

g)   follow-up the developments of ICAO position for future ITU World Radio Communication (WRC) Conferences and provide expert advises to States;

h)   follow-up the operation of the MID ATS Message Management Center (MIDAMC);

i)   provide regular progress reports to the MSG 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 CNS 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 framework;

b)   provide necessary inputs to the MID Region Air Navigation Strategy through the monitoring of the agreed Key Performance Indicators related to CNS facilities and procedures;

c)   identify and review those specific deficiencies and problems that constitute major obstacles to the provision of efficient CNS implementation, and recommend necessary remedial actions;

d) lead the work programme of the MID-AMC including the conduct of trainings and upgrades;

e) assist, coordinate, harmonize and support in the implementation of CNS facilities and procedures;

f) seek States support to ICAO Position at WRCs, and encourage States for the proper utilization of the Frequency Spectrum and Interrogation Code Allocations;

g) follow-up surveillance technologies implementation to be in line with the MID Region surveillance plan and the operational improvements in coordination with other Sub-Groups;

h) review, identify and address major issues in technical, operational, safety and regulatory aspects to facilitate the implementation or provision of efficient Surveillance services in the MID Region;

i) follow-up Global GNSS evolution, and provide assistance/guidance to states on available GNSS services;

j) address Datalink communication services and support implementation where operationally required;

k) review and identify inter-regional and intra-regional co-ordination issues in the field of CNS, harmonize and recommend actions to address those issues; and

l) Coordinate with relevant MIDANPIRG and RASG-MID Subsidiary bodies issues with common interests.

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.

3. 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 Subgroup. The Subgroup shall at all times conduct its activities in the most efficient manner possible with a minimum of formality and paper work (paperless meetings). Permanent contact shall be maintained between the Chairperson, Secretary and Members of the Subgroup to advance the work. Best advantage should be taken of modern communications facilities, particularly video-conferencing (Virtual Meetings) and e-mails.

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

MIDAMC Steering Group

(MIDAMC STG)

1. TERMS OF REFERENCE (TOR)

1.1 The Terms of Reference of the MIDAMC Steering are:

a) to promote the efficiency and safety of aeronautical fixed services in the MID Region through the operation and management, on a sound and efficient basis, of a permanent MID Regional ATS Messaging Management Center (MIDAMC);

b) foster the implementation of the Air traffic service Message handling service in the MID Region through provision of the guidance materials and running facilitation tools, utilizing the MIDAMC;

c) MIDAMC Steering Group will consist of a focal point from each Participating MID State who would represent the State and acts as the Steering Group Member;

d) MIDAMC Steering Group will be responsible for overall supervision, direction, evaluation of the MIDAMC project and will review/update the MIDAMC work plan whenever required;

e) the MID Region is considering the establishment of Reginal MID IP Network; the MIDAMC STG will drive the project which is called Common aeRonautical VPN (CRV), until the Operation Group is established; and

f) provide regular progress reports to the CNS SG, and MIDANPIRG concerning its work programme.

1.2 In order to meet the Terms of Reference, the MIDAMC Steering Group shall:

a) develop/update the accreditation procedure for all users on the MIDAMC;

b) develop and maintain guidance materials for MIDAMC users;

c) discuss and identify solution for operational problems may be arising;

d) provide support/guidance to States for AMHS Implementation, and monitor the AMHS activities;

e) assist and encourage States to conduct trial on Implementation of the ATS extended services, and identify operational requirements;

f) provide guidance/support to States on implementation of XML based data models (IWXXM, FIXM, AIXM,…etc) over AMHS;

g) monitor States' readiness to implement XML based data models over extended AMHS;

h) identify the need for any enhancement for the MIDAMC and prepare functional and technical specifications, and define its financial implications;

i) follow-up on ICAO standards and recommendations on the ATS messaging management;

j) define future liabilities and new participating States and ANSPs;

k) follow-up and review the work of similar groups in other ICAO Regions;

l) follow-up the implementation of IP Network in the MID Region, through joining relevant projects, like CRV and act as project manager; and

m) proposes appropriate actions for the early implementation also support the IP Network until the Operational Group is establish.

2. COMPOSITION

a) ICAO MID Regional Office;

b) Members appointed by the MIDANPIRG member States; and

c) other representatives, who could contribute to the activity of the Steering Group , could be invited to participate as observers, when required .

3. 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 Study Group. The Study Group 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 Study Group to advance the work. Best advantage should be taken of modern communications facilities, particularly video-conferencing (Virtual Meetings) and e-mails.

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

Frequency Management Working Group
(FMWG)

1. TERMS OF REFERENCE (TOR)

The FMWG will undertake the following tasks in the work required to manage the MID Region frequency assignments in order to ensure sufficient access to the resource for the provision of aeronautical communication, navigation and surveillance services (CNS) in an efficient and safe manner:

a) develop MID Region frequency assignment plan including long term spectrum usage of radio systems;

b) validate the ICAO Global database and keep it up to date;

c) resolve current frequency assignments conflict in the ICAO Global database;

d) develop recommendation or proposal for improvement to the existing regional VHF frequency assignment process based on the ICAO Global Spectrum Management tool, ICAO 9718 Volume II Handbook provision and current coordination issues;

e) propose solutions for the interference incidents occurred in MID Region states in a timely manner;

f) escalate the intentional frequency interference matters and coordinate with other relevant international organizations, as and when required;

g) provide guidance/support to States to protect the GNSS signals;

h) collaborate with ITU and other relevant international organization to address frequent interference incidents;

i) support for ICAO Position at World Radio Communication Conference (WRC) and ensure MID States' support ICAO at ITU meetings;

j) collaborate with Regional Groups; Arab Spectrum Management Group (ASMG) African Telecommunication Union (ATU), and Asia/Pacific Telecommunication Group (APT) to support ICAO position at WRC;

k) ensure the continuous and coherent development of the relevant sections of the MID eANP, taking into account the evolving operational requirements in the MID Region and the need for harmonization with the adjacent regions in compliance with the Global Air Navigation Plan;

l) develops recommendations for CNS SG about how to address the future operational needs and limitations in VHF voice communications, aiming at avoiding introduction of 8.33 kHz spacing in the MID Region for as long as practicable; and

m) Frequency Management Working Group will be responsible for overall supervision of the frequency issues in the MID Region and will review/update the FMWG work plan whenever required.

n) collect and share information on the best practices implemented by States and Regional Organizations to mitigate potential radio altimeters (RADALT) interference that caused by 5G operation.

o) develop guidance material to protect aircraft operations from potential Radio Altimeter interference associated with the deployment of 5G ground infrastructure.

2. COMPOSITION

a) ICAO MID Regional Office;

b) MIDANPIRG CNS Sub Group Chairpersons;

c) Members appointed by the MIDANPIRG member States; and

d) other representatives, who could contribute to the activity of the Working Group, could be invited to participate as observers.

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