



International Civil Aviation Organization

MIDANPIRG Communication, Navigation and Surveillance Sub-Group

**Twelfth Meeting (CNS SG/12)
(Amman, Jordan, 2-4 May 2023)**

Agenda Item 4: CNS planning and implementation in the MID Region

OUTCOME OF THE NAV MON ACTION GROUP MEETINGS

(Presented by Secretariat)

SUMMARY
This paper presents the outcome of the Navigation Minimum Operating Network Action Group meetings
Action by the meeting is at paragraph 3.
REFERENCES
- MIDANPIRG/18 & RASG-MID/8 Meetings
- GANP 7 th edition

1. INTRODUCTION

1.1 The shift from facility-referenced navigation to coordinate-based navigation enabled by performance-based navigation (PBN) provides significant benefits, in particular by supplying the flexibility required to design airspace and associated routes and procedures according to operational needs. The most suitable navigation infrastructure to support PBN is GNSS.

1.2 The role of conventional navigation aids is currently evolving towards that of a reversionary terrestrial infrastructure capable of maintaining safety and an adequate level of operations in case of unavailability of GNSS (for example due to outages). During this evolution, terrestrial aids may also enable PBN operations for users not yet equipped with GNSS.

2. DISCUSSION

2.1 The ASBU element “Navigation Minimal Operating Networks” (NAVS B0/4) has been classified as priority 1 in the revised MID Region Air Navigation Strategy (MID Doc 002).

2.2 This element aims to rationalize the conventional Navigational aids network through the increased deployment of the satellite based navigation system.

2.3 The meeting may wish to recall that MIDANPIRG/18 meeting, through Decision 18/42, agreed on the need to develop a template for Navigation Minimal Operating Networks (Nav. MON) plan in line with ICAO SARPs and Regional requirements.

MIDANPIRG DECISION 18/42: NAV MON PLAN AD-HOC ACTION GROUP

That, the NAV. MON Plan Ad-hoc Action Group be:

- a) established to develop a template for NAV MON Plan to be presented to the CNS SG/11 for further review and enhancement;*
- b) Composed of:*
 - Mr. Saleh Al-Harthy (Oman, CNS SG Chairman)*
 - Mr. Ahmed Abdelwahab (Egypt)*
 - Ms. Amena Dodin (Jordan)*
 - Mr. Khaled Eltanany (Oman)*

2.4 The meeting may wish to note that a Draft template has been developed,

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the progress made and provide comments on the Draft NAV MON template.

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