



International Civil Aviation Organization

**Eighth Meeting of the Performance Based Navigation Sub-Group
(PBN SG/8)**

(Doha, Qatar, 12 - 13 December 2023)

Agenda Item 6.1: MID Region Air Navigation priorities and targets

**MID AIR NAVIGATION STRATEGY PRIORITIES AND TARGETS
RELATED TO PBN**

(Presented by the Secretariat)

SUMMARY

This paper presents the revised MID Air Navigation Strategy in particular parts related to PBN and proposes changes to the ASBU APTA Thread/Elements for its improvement both in planning and implementation.

Action by the meeting is at paragraph 3.

REFERENCES

- GANP 7th edition
- MID Region Air Navigation Strategy MID Doc 002
- MIDANPIRG/20 & RASG-MID/10 Report
- GANP & NANP workshop SoD

1. INTRODUCTION

1.1 The ICAO Assembly at its 41st Session, through Resolution A41-6, endorsed the 2023-2025 edition of the Global Air Navigation Plan (GANP) as the global strategic directions for safety and the evolution of the air navigation system.

1.2 The seventh edition of the GANP encompassed minor updates, as follow:

- a) Update of the GANP performance framework
 - Safety KPA - Strengthen the link with the GASP
 - Maintenance process for the performance framework
- b) Mapping the Basic Building Blocks (BBBs) and the Universal Safety Oversight Audit Programme (USOAP)
- c) Update the Aviation System Block Upgrade (ASBU) framework and the Basic Building Block (BBB) framework

2. DISCUSSION

GANP – NANP WORKSHOP OUTCOMES

2.1 The meeting may wish to note that the ICAO MID Workshop on the Global Air Navigation Plan and National Air Navigation Plan (GANP & NANP) was successfully held in the ICAO Middle East Office in Cairo, Egypt, 5 – 8 March 2023. The meeting was provided with the highlights of the seventh edition of the GANP 7th edition which encompassed minor updates. Also, this workshop reviewed and updated the MID ANP Volume III and MID Region Air Navigation Strategy (ICAO MID Doc 002).

2.2 Furthermore, the MID Region Air Navigation Strategy (ICAO MID Doc 002) was reviewed and endorsed by MIDANPIRG/20 meeting (Muscat, Oman, 14 – 17 May 2023) through Conclusion 20/7.

2.3 The MID Region Air Navigation Strategy edition March 2023 is available at: [MID Doc 002 - MID Air Navigation Strategy - March 23.pdf \(icao.int\)](#).

APTA Thread/Elements (Block 0 & 1) in the MID Air Navigation Strategy

2.4 The meeting may wish to note that the ASBU APTA Thread/Elements and the monitoring table were updated in the revised MID Region Air Navigation Strategy (ICAO MID Doc 002), in line with the Global Air Navigation Plan (GANP 7th edition), as follows:

APTA							
<i>Element</i>		<i>Applicability</i>	<i>Performance Indicators/ Supporting Metrics</i>	<i>Baseline (2022)</i>	<i>Target</i>	<i>Timeline</i>	<i>KPA/ KPI</i>
APTA B0/1	PBN Approaches (with basic capabilities)	All RWYs ENDS at International Aerodromes	Indicator: % of Runway ends at international aerodromes provided with Baro-VNAV approach procedures (LNAV/VNAV) Supporting metric: Number of Runways ends at international aerodromes provided with Baro-VNAV approach procedures (LNAV/VNAV)	55%	100%	Dec 2017	Capacity/ KPI 10
APTA B0/2	PBN SID and STAR procedures (with basic capabilities)	All RWYs ENDS at International Aerodromes	Indicator: % of Runway ends at international aerodromes provided with PBN SID and STAR (basic capabilities). Supporting Metric: Number of Runway ends at international aerodromes provided	55%	70%	Dec 2022	Efficiency Capacity/ KPI 10 KPI 11 KPI 17 KPI 19/

APTA							
<i>Element</i>		<i>Applicability</i>	<i>Performance Indicators/ Supporting Metrics</i>	<i>Baseline (2022)</i>	<i>Target</i>	<i>Timeline</i>	<i>KPA/ KPI</i>
			with PBN SID and STAR (basic capabilities).				
APTA B0/4	CDO (Basic)	OBBI, OIIE, OIKB, OIFM, OJAI, OLBA, OOMS, OTHH, OTBD, OEJN, OEMA, OEDF, OERK, HSSS, HSPN, OMAA, OMAL, OMAD, OMDW, OMDB, OMSJ, OMRK and OMFJ	Indicator*: % of International Aerodromes with CDO implemented as required. Supporting Metric: Number of International Aerodromes with CDO implemented as required. *As per the applicability area	65%	100%	Dec 2021	Efficiency/ KPI 19
APTA B0/5	CCO (Basic)	OBBI, OIIE, OIKB, OIFM, OJAI, OLBA, OOMS, OTHH, OTBD, OEJN, OEMA, OEDF, OERK, HSSS, HSPN, OMAA, OMAL, OMAD, OMDW, OMDB, OMSJ, OMRK and OMFJ	Indicator*: % of International Aerodromes with CCO implemented as required. Supporting Metric: Number of International Aerodromes with CCO implemented as required. *As per the applicability area	65%	100%	Dec 2021	Efficiency/ KPI 17
APTA B0/7	Performance based aerodrome operating minima – Advanced aircraft	All States	Indicator: % of States authorizing Performance-based Aerodrome Operating Minima for Air operators operating Advanced aircraft. Supporting Metric: Number of States	85%	100%	Dec 2021	Capacity/ KPI 10

APTA							
Element		Applicability	Performance Indicators/ Supporting Metrics	Baseline (2022)	Target	Timeline	KPA/ KPI
			authorizing Performance-based Aerodrome Operating Minima for Air operators operating Advanced aircraft.				

Proposed Changes to the APTA Thread/Elements

2.5 A concise summary of the key changes proposed in the APTA Thread/Elements are highlighted in the table below.

APTA							
Element		Applicability	Performance Indicators/ Supporting Metrics	Baseline (2022)	Target	Timeline	KPA/ KPI
APTA B0/1	PBN Approaches (with basic capabilities)	All RWYs ENDs at International Aerodromes	Indicator: % of Runway ends at international aerodromes provided with Baro VNAV approach procedures (LNAV/VNAV) served by PBN approach procedures with basic functionalities - down to LNAV or LNAV/VNAV minima Supporting metric: Number of Runways ends at international aerodromes provided with Baro VNAV approach procedures (LNAV/VNAV) served by PBN approach procedures with basic functionalities - down to LNAV or LNAV/VNAV minima	55%	100%	Dec 2017	Capacity/ KPI 10
APTA B0/4	CDO (Basic)	OBBI, OIIE, OIKB, OIFM, OJAI, OLBA, OOMS, OTHH, OTBD, OEJN, OEMA, OEDF, OERK, HSSS, HSPN,	Indicator*: % of International Aerodromes with CDO implemented and published as required. Supporting Metric: Number of International Aerodromes with CDO	65%	100%	Dec 2021	Efficiency/ KPI 19

APTA							
<i>Element</i>		<i>Applicability</i>	<i>Performance Indicators/ Supporting Metrics</i>	<i>Baseline (2022)</i>	<i>Target</i>	<i>Timeline</i>	<i>KPA/ KPI</i>
		OMAA, OMAL, OMAD, OMDW, OMDB, OMSJ, OMRK and OMFJ	implemented and published, as required. *As per the applicability area				
APTA B0/5	CCO (Basic)	OBBI, OIIE, OIKB, OIFM, OJAI, OLBA, OOMS, OTHH, OTBD, OEJN, OEMA, OEDF, OERK, HSSS, HSPN, OMAA, OMAL, OMAD, OMDW, OMDB, OMSJ, OMRK and OMFJ	Indicator*: % of International Aerodromes with CCO implemented and published as required. Supporting Metric: Number of International Aerodromes with CCO implemented and published, as required. *As per the applicability area	65%	100%	Dec 2021	Efficiency/ KPI 17
APTA B0/7	Performance based aerodrome operating minima – Advanced aircraft	All States	Indicator: % of States authorizing Performance-based Aerodrome Operating Minima for Air operators operating Advanced aircraft. Supporting Metric: 1- Number of States authorizing Performance-based Aerodrome Operating Minima for Air operators operating Advanced aircraft. having provisions for operational credits to enable lower minima based on advanced aircraft capabilities. (Reference: Annex 6 Part I para. 4.2.8.2.1) 2- Number of States Putting in place an approval process for the operational credit to Aircraft operator conducting PBAOM	85% 50%	100% 80%	Dec 2021 Dec 2025	Capacity/ KPI 10

APTA							
<i>Element</i>		<i>Applicability</i>	<i>Performance Indicators/ Supporting Metrics</i>	<i>Baseline (2022)</i>	<i>Target</i>	<i>Timeline</i>	<i>KPA/ KPI</i>
			operations for low visibility operations (Reference: Doc 9365 (AWO Manual))				

RANP/NANP Task Force

2.6 The meeting may wish to note that the RANP/NANP Task Force is established by MIDANPIRG/20 through Decision 20/12, to ensure alignment of the MID Region Air Navigation Strategy and MID ANP Vol III with the latest edition of the GANP and assist States developing NANPs.

2.7 The first meeting of the RANP & NANP TF/1 is planned to be held in Cairo in February 2024.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information provided in this paper;
- b) discuss the proposed changes;
- c) agree to bring the proposed changes to the attention of the RANP/NANP Task Force for further consideration; and
- d) agree on the relevant priority 1 APTA elements.