

SAFE SKIES.
SUSTAINABLE
FUTURE.

Twenty-seventh Meeting of the Africa-Indian Ocean Planning and Implementation Regional Group (APIRG/27)

> East London, South Africa, 4 – 8 November 2024



WP/03C- Update on the African Flight Procedure Programme

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WP/03C2 – PBN implementation Status

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Background

PBN elements

Implementation status

Implementation challenges

Action by the meeting

Assembly Resolutions

□2007 – A3623:

- Introduction of the Performance –based Navigation (PBN) concept;
- PBN Implementation Plans required by 2009;
- **PBN** implementation for:
 - En-route and Terminal;
 - Approach procedures for all instrument runways either as primary or backup to ILS by 2016 with intermediate milestones.

□2010 – A3711:

- © Complete national PBN implementation plans as a matter of urgency.
- Superseded A36-23.

Background

APIRG Conclusions

□2007 – APIRG 16:

- © Concl. 16/2:
 - Establishment of a PBN task Force to develop the AFI PBN Roadmap.
- © Concl. 16/3:
 - State to develop national plans based on the regional roadmap.
- © Concl. 16/4:
 - States to nominate PBN focal points.

2009:

Dedicated workshop and guidance on the development of the plans provided.

Background

APIRG Conclusions

□2010 – APIRG 17 :

- © Concl. 17/47:
 - PBN plan template provided to States;
 - State to complete NPIPs as soon as possible.
- © Concl. 17/48:
 - Implementation tools provided: Action Plan Templates, project management; reference to others.

□2022 – APIRG 22 :

- **©** Concl. 22/07:
 - Robustness of NPIP;
 - Funding for NPIP development or revision.
- **©** Concl. 22/08:
 - Implementation of Continuous Descent and Continuous Climb Operations (CCO/CDO);
 - Capacity building on CCO/CDO.

- □PBN implementation must start with:
 - NPIP development;
 - WGS-84 implementation (prerequisite).
- ☐ Followed by PBN procedures in:
 - Terminal area (Arrival and Departures routes);
 - Approach Area:
 - Approach procedures with vertical guidance (APV);
 - Approach procedures without vertical guidance (LNAV only).



Implementation status

National PBN Implementation Plans (NPIPs)

☐ Total number of States: 54

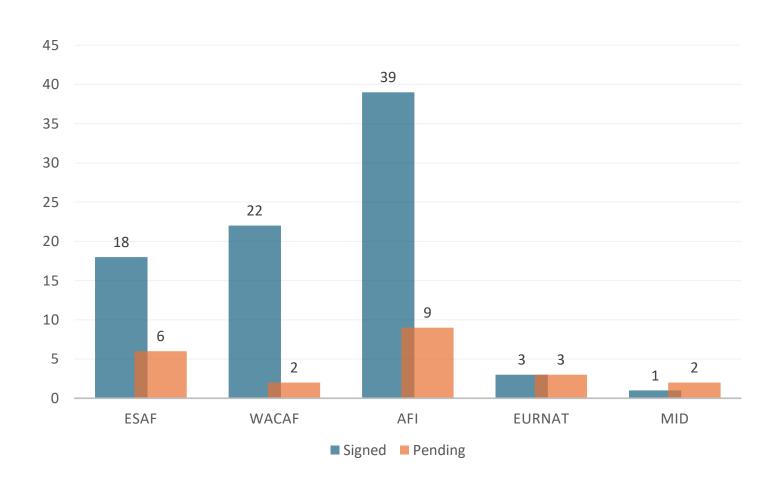
☐ States with NPIPs : 44 (81%)

☞ ESAF : 18 (75%)

EURNAT : 3 (100%)

☐ Pending NPIPs

- Burundi
- Djibouti
- Egypt
- Eritrea
- Eswatini
- Lesotho
- Libya
- South Sudan



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PBN Flight Procedures

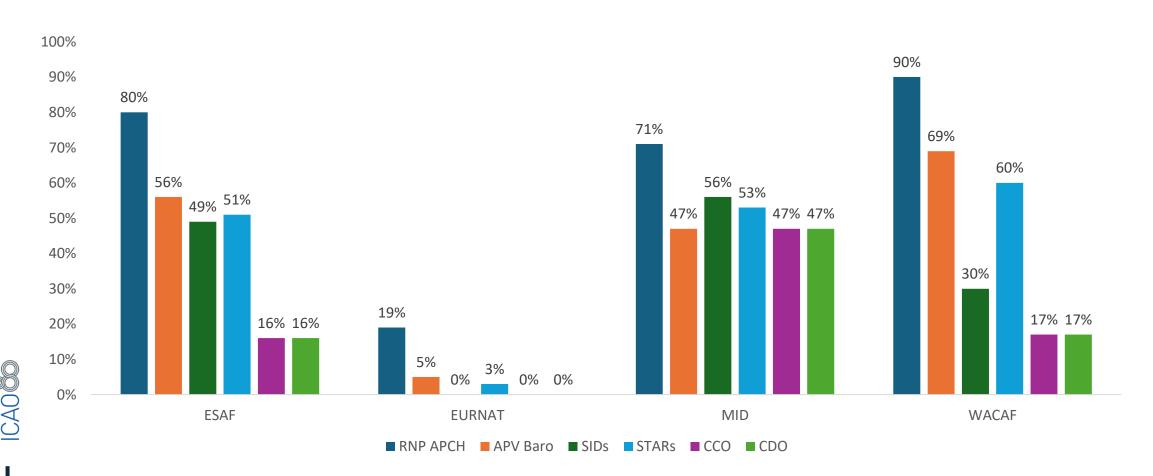
□ Figures based on the list of international aerodromes required in the regional Air Navigation Plans.

☐ Source electronic Air Navigation Plan (eANP) of each Region.

□Number of runways ends:

# Runways	ESAF	EUR/NAT	MID	WACAF
# RWYs	195	104	38	120
# Instrument RWYs	138	74	34	107

PBN Flight Procedures



APIRG/27 Meeting, East London, South Africa, 4-8 November 2024

Implementation status

PBN Flight Procedures

□Conclusion:

- The implementation rate is globally satisfactory;
- # Aerodromes without Terminal PBN flight procedures: 61
- # States without Terminal PBN flight procedures :
 - Burundi, Eswatini, Libya, Sao Tome and Principe, Tunisia, Zimbabwe.

- □African States are facing recurrent issues with the PANS-OPS:
 - Instrument flight procedures:
 - are based on Navaid that must be calibrated on a periodic basis;
 - Shall approved by the CAA prior to their implementation;
 - are design using WGS-84 data that shall be revised maximum every five years.
 - Shall be revised maximum every five years.
- □ Inability to abide by these rule are the main cause of the recurrent Safety Significant Concerns which resolution is costly.

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☐The meeting is invited to:

- Take note of the information;
- Develop the national PBN implementation plan implement AR37-11 provision;
- Call upon States to take anticipated measures to comply with the ICAO safety requirements for instrument flight procedures' implementation.

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Thank You

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