

## Terms of Reference

**AAO SG Project Team 1:** PBN Airspace Concept (Airspace Design) and AFI Optimized Route Trajectories and Airspace (AORTA).

**Project Lead:** Uganda

**Project Membership:** Angola, Cameroon, Cote d'Ivoire, Kenya, Togo, South Africa, Uganda, IATA and ICAO

**Priority:** 1A

**Related ASBU Module:** APTA-B0, APTA-B1, FRTO-B0, FRTO-B1

Project Number A1 and A2	
Project Name	PBN Airspace Concept (Airspace Design) and AFI Optimized Route Trajectories and Airspace (AORTA)
Objective	<p>To assist States in the harmonized implementation of PBN and ASBU Elements</p> <ol style="list-style-type: none"> <li>1. APTA-B0/1-PBN Approaches (with basic capabilities)</li> <li>2. APTA-B0/2-PBN SID and STAR procedures (with basic capabilities)</li> <li>3. APTA-B0/4-CDO (Basic)</li> <li>4. APTA-B0/5-CCO (Basic)</li> <li>5. APTA-B1/1-PBN Approaches (with advanced capabilities)</li> <li>6. APTA-B1/2-PBN SID and STAR procedures (with advanced capabilities)</li> <li>7. APTA-B1/4-CDO (Advanced)</li> <li>8. APTA-B1/5-CCO (Advanced)</li> <li>9. FRTO-B1/2-Required Navigation Performance (RNP) routes</li> <li>10. FRTO-B1/4-Dynamic sectorization</li> </ol>
Scope (Focus area and priorities)	<ol style="list-style-type: none"> <li>1. The PBN AORTA Project covers the airspace of the AFI Region excluding portions over the South Atlantic which shall be coordinated with the SAT Group;</li> <li>2. Based on the airspace user needs and in coordination with stakeholders (States, International Organizations, user representative organizations and other ICAO Regions), work of the PBN AORTA PMT will leverage the GANP technical framework including the Basic Building Blocks applicable to airspace organization and management as well as ASBU applicable elements to address in priority PBN procedures and routes in terminal area as well as implementation of RNAV10/RNP10 in remote continental and oceanic areas.</li> </ol>
Key tasks (Inputs)	

	<ul style="list-style-type: none"> <li>a) Coordinate the Development of National PBN Implementation Plans (NPIPs) and ensure that all AFI States that have developed NPIPs, revise their Plans in accordance with the new NPIP format.</li> <li>b) Identification of requirements and improvements for achieving and maintaining an efficient route network in the AFI Region</li> <li>c) Assist States with improving the Implementation of PBN in conjunction with ASBU applicable elements in blocks 0, 1 and 2.</li> <li>d) Coordination collection of information on PBN implementation activities in the AFI region by developing and disseminating Questionnaire on a periodic basis.</li> <li>e) Keep an Updated register of all PBN focal points and coordinate training assistance to the new Focal points.</li> <li>f) AFI ATS Route network maintenance and continuous improvement by providing an annual updated ATS route catalogue through coordination with States.</li> <li>g) Review PBN Specification for the continental and oceanic Enroute Airspaces.</li> <li>h) Review the AFI airspace concept in coordination with the AFI ATM Master Plan (AAMP), Free Route Airspace (FRA), Civil Military Cooperation/ Flexible use of airspace (CMC/FUA) and the ATM Contingency Planning Project Teams.</li> </ul> <p>Propose a simplified organized track system (OTS) for the AFI region based on updated major traffic flow.</p>
Policy and Strategic Management	Regional Supplementary Procedures, GANP, AFI ANP, AFI PBN Implementation Plan, AFI ATM Master Plan, Bilateral agreements
Inputs	States, ANSPs, Users and ICAO expertise to assist in development and implementation
Results (Expected outcomes)	<ul style="list-style-type: none"> <li>➤ Optimized airspace</li> <li>➤ AFI area of routing and major traffic flow updated</li> <li>➤ New optimized ATS route trajectories implemented.</li> <li>➤ Material for PfA of ANP developed</li> <li>➤ Roadmaps and strategies, including harmonized implementation target dates developed</li> <li>➤ Generic supporting material developed</li> </ul>
Targets and Indicators Measurement tools (metrics)	<p>Percentage of PBN Implementation in the AFI region by considering</p> <ol style="list-style-type: none"> <li>1. STARs</li> <li>2. SIDs</li> <li>3. CCO/CDO</li> <li>4. NPIP</li> <li>5. APV (LNAV/VNAV or LPV)</li> <li>6. Updated ATS route catalogue</li> <li>7. Implementation of ASBU Modules (Block Zero and Block One)</li> <li>8. RNAV 5 Routes between city pairs in AFI</li> </ol>
Process (activities)	<ul style="list-style-type: none"> <li>➤ Implementation meetings, electronic and on site</li> <li>➤ Implementation workshops</li> <li>➤ Assistance workshops</li> <li>➤ Assistance Go Team missions</li> </ul>
Timelines	<ol style="list-style-type: none"> <li>1. NPIP 2025-2026</li> <li>2. Collection of data on PBN implementation (December) Annually</li> <li>3. Implementation of ASBU PBN Block Zero elements - June 2026</li> <li>4. Review PBN Specification for the ATS routes – December 2027</li> <li>5. Review AFI major air traffic flow Annually and produce an annual AFI ATS Route Catalogue</li> <li>6. Conduct technical assistance to States (on request)</li> </ol>

	7. Implementation of ASBU PBN Block One elements - June 2028	
Resources (Funding arrangements)	<b>1. Expertise provided by States, users and ICAO</b>	
	<b>Core of the Team:</b>	
	a) ATM Airspace planners/Air Traffic Controllers	4
	b) PBN PANS OPS	4
	c) User representatives: IATA	1
	d) ICAO	2
	IFATCA	1
	IFALPA	1
	AFRAA	1
	<b>e) TOTAL CORE GROUP</b>	<b>14</b>
	<b>2. Tools provided by States, users and ICAO</b>	
	a) Chart development tools b) Flight planning tools c) Time allocations for events (meetings, workshops, etc.) d) Finances related to hosting of events and travel for expert Team Members	
Monitoring and reporting	Update regional dashboard. Report to AAO Sub-Group and PRCC	