



ICAO

UNITING AVIATION

Seminar/Workshop on PBN Implementation

Context and Objectives

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Presentation Outline

-  **The agenda**
-  **The Context**
-  **The Objectives**



Tuesday 24 – PBN Implementation plans: objectives, status and States concerns

Agenda

- | | |
|----------------------|--|
| 09:30 – 10:00 | Seminar context and objectives |
| 10:00 – 11:00 | ICAO PBN Concept and benefits ICAO Objectives |
| <i>11:00 – 11:30</i> | <i>Coffee Break</i> |
| 11:30 – 12:00 | National PBN Implementation Plans objectives
State approbation for GNSS Use
Current progress of National PBN Implementation Plans |
| 12:00 – 12:30 | PBN Implementation in Europe
European Airspace Concept Handbook for PBN Implementation |
| <i>12:30 – 14:00</i> | <i>Lunch Break</i> |



Tuesday 24 – PBN Implementation plans: objectives, status and States concerns

Agenda

12:30 – 14:00

Lunch Break

14:00 – 15:00

Presentation of National PBN implementation plans: challenges and achievements

- Senegal, Kenya, Uganda, Nigeria

15:00 – 15:30

Needs, issues and concerns from States

Open discussion

15:30 – 16:00

Coffee Break

16:00 – 16:30

Presentation of National PBN implementation plan template and guidelines

16:30 – 17:00

Workshop content and planning

List of participants



Wednesday 25 (09:00- 17:00) - Customized Workshops

Group 1: States with no PBN implementation plan or plan at early stages of development

Group 2: States with existing PBN implementation plan judged insufficiently mature or without actual PBN implementation

Group 3: States with existing and mature PBN implementation plan together with some concrete PBN implementation

Thursday 26 - Customized workshops (cont'd), seminar outcomes and closure

09:00 – 12:30 **Customized workshops (continued)**

12:30 – 14:00 *Lunch Break*



Thursday 26 - Customized workshops (cont'd), seminar outcomes and closure

12:30 – 14:00 Lunch Break

14:00 – 14:30 Review of workshops' main outcomes

14:30 – 15:00 Presentation of short term action items from the States: State 1, State 2

15:00 – 15:30 Coffee Break

15:30 – 16:30 Presentation of short term action items from the States (cont'd)

16:30 – 17:00 Wrap-up and next steps

17:00 – 17:15 Workshop closure



- ✈️ ICAO PBN Concept (2004), Doc 9613, PBN Manual (2007) and SARPs

- ✈️ AFI RAN Special Meeting in 2008

- ✈️ The Fourth Edition of the Global Air Navigation Plan (GANP) adopted by the 12th Air Navigation Conference in 2012
 - ✈️ Introduced the ASBUs methodology in which elements of PBN are included



Context of the Seminar

- ✦ AFI Regional Implementation Plan revised to give effect to Assembly Resolution 37-11
 - ✦ Urge States to have a PBN implementation plan
 - ✦ Implement PBN SID, STARs and Routes where operational beneficial
 - ✦ Implement PBN approach procedures with vertical guidance to all runways by 2016

- ✦ 2012 APIRG/18 conclusion
 - ✦ calling on States to develop their National PBN Implementation Plan

- ✦ 2013 GNSS/PBN TF/4 Conclusions
 - ✦ 4/02 on National PBN Programme Manager/Coordinator; and
 - ✦ 4/03 on National PBN Implementation Plan








Timeframes

-  Short Term (2008-2012);
-  Mid-Term (2013-2016); and
-  Long Term (2017 and beyond)

2 key navigation concepts

-  Area Navigation (RNAV) in surveillance environment; and
-  Required Navigation Performance (RNP) in non-surveillance environment




Encompasses

-  Instrument approach;
-  SIDs and STARs; and
-  En Route continental , oceanic and remote operations
-  Airspace design review
-  Terminal and flight-deck automation







ASBU Implementation

Module B0-APTA

-  Safety, access and equity, efficiency, capacity and environment;
-  APV Baro VNAV, LNAV only minima
 -  Short Term: 2010 (30%) and 2012 (50%)





In terminal operations incorporation of Modules B0-CDO and B0-CCO

-  Increase flight procedures efficiency and safety
-  Noise level reduction;
-  Flight fuel consumption efficiency; and
-  Carbon emissions reduction



Assistance to States/Administrations

Provision of updated information on Global PBN activities

-  PBN concept
-  PBN benefits
-  PBN enabler for enhancing ATM operations
-  ICAO PBN objectives; and

Develop PBN Implementation Plans

Enhance PBN Implementation Plans



Assistance to States/Administrations

Appropriate tools/knowledge

-  drafting of National PBN Implementation Plan

List of short-term action items to:

-  advance on-going PBN implementations and deployments

-  enhance existing PBN Implementation Plans

List of action items

-  relevant recommendations submitted to appropriate CAAs/DCAs for actions



African FPP Website

<http://www.icao.int/WACAF/Pages/African-FPP.aspx>

