



WORKING PAPER

**FIRST MEETING OF THE
AFRICAN FLIGHT PROCEDURES PROGRAM (FPP)
STEERING COMMITTEE**

Nairobi, 16-17 December 2014

Agenda Item 7: Global PBN Products and Services

**APPLICATION OF THE
ICAO PERFORMANCE-BASED NAVIGATION
PRODUCTS AND SERVICES**

(Presented by the Secretariat)

SUMMARY

This paper provides an overview of the new ICAO Plan for PBN products and services. It also includes the differences between the possible users in the FPP as well as a standardized formula for pricing on a State to State approach. Finally it provides guidance on the application of the plan by the Steering Committee.

Action by the Steering Committee is indicated in item 4.

COORDINATION

ANB,FPP

REFERENCES

- *PBN Products and Services Plan (draft)
- *FPP PRODOCs
- *Policy on Revenue Generation Activities
- *DOC 7515/14

This working paper relates to ICAO Strategic Objectives Safety (A), Air Navigation Efficiency and Capacity (B) and Environmental Protection (E)

*Principal references

1. INTRODUCTION

1.1 Recently, there has been a change in ICAO's policy regarding revenue generation (*Policy on Revenue-Generating Activities*). The Secretary General is authorized to charge for services provided by the organization in accordance with para 7.7 of Doc 7515/14.

1.2 Within this policy there are two main types of activities: those required to implement and add value to the Strategic Objectives or to sustain and ensure quality of Work Programme support, and those maximizing the use of ICAO assets.

1.3 Revenue generation within ICAO aims at leveraging revenue-generating opportunities by, inter alia, developing and promoting products, services as well as intellectual properties while identifying and exploring potential opportunities.

1.4 ICAO generates revenue through various means such as facility rentals, documentation sales (to Non-Member States), training and participation in Symposia and forums, to name a few. However, ICAO cannot continue to provide extra products and services in addition to what is currently provided for free of charge without incurring additional costs. Therefore, new products and services will be provided at a cost, including those related to Instrument Procedure Design and PBN implementation assistance.

2. PBN PRODUCTS AND SERVICES PLAN

2.1 In concert with the new policy, ICAO has developed a PBN Products and Services Plan that offers States assistance with PBN implementation, at a cost. In the past, some of these products were provided free of charge (for example, ICAO/IATA GO Team visits, On-line courses for PBN Overview, PBN Ops Approval and PBN Airspace Design and classroom courses on PBN Ops Approval and PBN Airspace Design, etc.). This plan is currently being finalized and will be provided to States by electronic bulletin in January 2015.

2.2 The plan explains the products and services that are either currently available or will be in the near future, with the aim of ensuring the global harmonization of both course material and costing principles. The plan provides a costing schedule to be used in determining the specific fee to be applied for each product or service. A general overview of the products and services is attached as Appendix A.

2.3 The PBN Program Office is responsible to provide the necessary oversight to ensure a consistent approach is applied globally when implementing the PBN Products and Services Plan and the associated cost model.

3. DISCUSSION

3.1 Today, there are two Flight Procedures Programmes in place, in Asia-Pacific and Africa regions. These programmes provide various services as per their respective Prodocs, to the active participating States which have contributed funding to the programme as well as to user participating (non-contributing) States. As per the Prodocs, these services are free of charge to the active participating States due to their financial/in-kind commitment and in accordance with the policy established by the applicable Steering Committee. For the non-contributing States, a service fee is normally charged in accordance with a fee schedule determined by the Steering Committee.

3.2 Where there is a demand for services that are not provided as per the Prodoc e.g. non-participating States, or services not covered for user States, or International Organizations, it is these services that fall under the new policy and the PBN Products and Services Plan. As an example, a State that wants to attend a PANS-OPS Instrument Procedure Design Course, provided by the FPP, and is not an active participating State of that FPP, would pay a fee to attend, as per the PBN Product and Services Plan.

3.3 The PBN Products and Services Plan provides a costing model to be applied by ICAO HQ, Regions and FPPs to ensure global consistency of application and harmonization. Consequently, the AFPP fee schedule should be compliant with this plan's costing model.

3.4 Until the PBN Products and Services Plan is officially released to States, FPP Offices are to coordinate with the ICAO PBN Programme Office on the appropriate fee to be charged for those services that fall under the *Policy on Revenue Generating Activities*. It is recommended that the Steering Committee considers amending relevant documentation to reflect the new ICAO policy and provide guidance to the AFPP to coordinate with the ICAO PBN Programme Manager whenever the provision of these additional services is requested. By doing so, it will ensure consistent cost application as well as technical content, in accordance with the ICAO policy.

4. ACTION BY THE STEERING COMMITTEE

4.1 The Steering Committee is invited to:

- a. Note the contents of this working paper; and
- b. Take any necessary action to apply the information provided in this working paper regarding the *Policy on Revenue Generating Activities* and the PBN Products and Services Plan.

APPENDIX A PBN PRODUCTS AND SERVICES

Performance-based Navigation (PBN) is the air transport community's highest air navigation implementation priority, having now clearly demonstrated the benefits of evolving from sensor-based to performance-based in terms of safety, optimized airspace, reduced fuel burn and emissions (noise and greenhouse gas), more efficient routes, and the ability to maintain reliable all-weather operations – even at the most challenging airports.

Having now completed a very successful roll-out of free PBN information and training sessions, ICAO is now pleased to offer a complementary suite of PBN products and services that covers the full range of near- and medium-term implementation needs of States and aviation stakeholders. ICAO considers the provision of these PBN product and service offerings to be essential in light of the forecast doubling of international air transport traffic by 2030.

ICAO has structured the new PBN products and services into six specific categories:

PBN Assessments (PBN-Start)

A two-week intensive collaboration that analyzes and evaluates the environmental, economic and airspace capacity issues affecting local/regional strategic PBN planning and implementation. PBN-Start culminates in the delivery to customers of an achievable strategic plan aligned with local/regional PBN goals.

PBN Training

PBN represents a paradigm shift with respect to everything from airspace and procedure design to airline and airport operations. In light of the steep learning curve associated with its benefits, ICAO will be offering a suite of eight courses covering everything from PBN introductions to operational approvals.

PBN Information Resources

Broken down into distinct groupings for executives, regulators, ANSP airspace and procedure designers, aircraft operators and manufacturers, these resources will be provided as publication and guidance 'bundles' tailored to each area's specific needs.

PBN Workshops and Symposiums

Local PBN events such as workshops or symposiums offer a unique opportunity to bring divergent planning, design and operational stakeholders together to share experiences and best practices and ensure that your State drives PBN implementation on a coordinated basis.

PBN Implementation Assistance

Implementation needs will vary from State to State and ICAO recognizes this. It also recognizes that this assistance is the most important aspect of realizing your PBN planning and ultimately its wide-ranging benefits. Accordingly ICAO will provide a full set of tools based on the master PBN Implementation Plan and tailored to the specific needs of your State or Region.

PBN Funding Coordination

ICAO will be pleased to help coordinate funding assistance for State PBN needs with applicable international bodies such as the World Bank, committed industry partners and financial institutions.

ICAO's ultimate goal in making these new PBN products and services available to the global aviation community is to assist States and stakeholders with implementing PBN. Our objective is to provide a fully-harmonized set of global PBN applications that will help States optimize air navigation capacity and efficiency while at the same time, improving flight safety. For more information please visit the ICAO [PBN website](#).