



International Civil Aviation Organization

**Meeting of the Performance Based Navigation/Global Navigation System Satellite System Task Force
(PBN/GNSS TF/4)**

Forth Meeting
(Egypt, Cairo, 2-4 October 2011)

Agenda Item 4: Update the Regional PBN Implementation Plan and Guidance Material

SUPPORT MID PERFORMANCE BASED NAVIGATION

(Presented by IATA)

SUMMARY

This paper addresses the need for a Regional Support Strategy to provide direct support to States in an effort to accelerate PBN implementation within the Middle East Region.

1. Introduction

- 1.1 At the 36th General Assembly of the International Civil Aviation Organization (ICAO) in 2007, States agreed to resolution A36-23, which urges all States to implement PBN. The resolution calls for PBN approaches for all airports by 2016 - with 30% by 2010 and 70% by 2014.
- 1.2 Resolution A37-11 supersedes A36-11, which urges all States to complete a national PBN implementation plan as soon as possible to achieve PBN for en route and terminal areas.
- 1.3 The Industry PBN Declaration complements resolution A36-23 with a much broader affirmation by the whole aviation community that fully supports the transition to PBN.
- 1.4 Performance Based Navigation (PBN) represents an evolution from the former ground-based navigation concept and includes improvements in the following areas;
 - Safety
 - Route flexibility
 - Reduction of noise
 - Airport and airspace access
 - Flight efficiency

2. Discussion

- 2.1 Prompt action by the Region and by States is required to accelerate PBN planning, development and implementation to a pace of at least achieving closure on the ICAO Resolution implementation targets.
- 2.2 A comprehensive Regional Support Strategy is required and should include (but not be limited to) the following objectives;
- Establishing a regional working-level team or forum to identify implementation needs and to direct and/or organize the appropriate resources that will deliver PBN solutions to States;
 - Formulation of cooperative arrangements to assist States in PBN implementation;
 - Development of additional support mechanisms that create skills and capabilities within States to implement and to sustain PBN operations;
 - Further promotion of PBN to decision makers within States to create the political will to invest and devote the necessary resources for PBN implementation.
- 2.3 The creation of PBN Regional Support Cell (RSC) might be considered a step towards fulfilling these objectives and engage at a working level to coordinate and provide assistance to States in areas such as;
- Completion and improvement of PBN implementation plans;
 - Conducting safety assessments;
 - Collection of required data and practices to maintain data integrity;
 - Guidance to establish the regulatory framework, approvals process and other mechanisms necessary for implementation and sustainment of PBN capabilities.
 - Providing guidance to States in PBN en-route implementation, airspace route design and harmonization across FIRs.
 - Assist in operational approval.
 - Promotion of PBN by increasing awareness and education to motivate States to invest and implement
 - Make use of the PBN Go-Team Visit to the UAE, and adapt this to provide the support at a greater frequency.
 - Provide guidance and assistance to operators in obtaining operational approval for utilising RNP and other PBN procedures
- 2.4 The PBN RSC will be supported by the airlines. However, States that are further advanced in PBN implementation would be encouraged to participate to assist developing States by bi-lateral arrangement and/or through collaborative Regional activities such as information seminars, workshops and on-site State support visits.
- 2.5 IATA volunteers to work as an industry partner to provide support to this effort and to act as a secretariat to this initiative.

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3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Consider and provide comment on the recommendation to develop a regional support strategy to assist States and help accelerate PBN implementation throughout the Region.
- b) Support the formation of PBN RSC to facilitate Regional support efforts and provide direct assistance to States.
- c) Consider the role of volunteering States' participation on the PBN RSC teams and assisting with Regional implementation and harmonization.

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