



ICAO

International Civil Aviation Organization

Third Meeting of the APAC ANSP Committee (AAC/3)

Chengdu, 8-10 July 2024

Agenda Item 5: Any other business

ATM Update by the ICAO APAC Regional Sub-office

(Presented by ICAO)

SUMMARY

This paper updates the ATM projects launched and planned by the ICAO Regional Sub-office to facilitate the implementation of the Air Navigation Service elements in the APAC Region.

1. INTRODUCTION

1.1 As part of the Asia and Pacific (APAC) Regional Office in Bangkok, the APAC Regional Sub-Office (RSO) is primarily responsible for supporting APAC States in improving airspace management and maximising Air Traffic Management (ATM) performance. The aim is to meet the growth in traffic without compromising safety.

1.2 The mandate of the RSO, which is operated on a project-oriented structure, is to help to facilitate the efficient management of the airspace and the international air traffic flows in the APAC Region, through the implementation of Airspace Organization and Management (AOM), Collaborative Decision Making (CDM) and Air Traffic Flow Management (ATFM). This includes assistance to improve ATFM capability in States, implementation of Performance-Based Navigation (PBN) in en-route and terminal airspace, approach procedures, enhancement of airspace utilisation (civil/military aspect) and improvement of traffic flows (review of ATS route networks) in the APAC Region. The APAC RSO closely coordinates with Regional Officers from the Regional Office in Bangkok and, as necessary, with Technical Officers of the Air Navigation Bureau (ANB) at ICAO HQ.

1.3 The paper introduces the work related to the APAC ANSP Committee (AAC) and its subsidiary Works Streams.

2. DISCUSSION

APAC Seamless ANS Plan Update

2.1 According to the *Terms of Reference*, AAC is supposed to coordinate with ICAO for the purposes of aligning the activities of the committee with the *Asia/Pacific Seamless ANS Plan*, and inform APANPIRG of its activities and progress. So, the update of the *Asia/Pacific Seamless ANS Plan V3.0* is essential for AAC to steer and synchronize its goals in tune with APAC's joint roadmap.

2.2 The update of the Asia/Pacific Seamless ANS Plan is still ongoing. Overall, the current draft version (V4.0) of the Plan required further consultation both with APAC States/Administrations (through their nominated focal points) and APANPIRG Sub-Groups before it could be considered ready for APANPIRG endorsement.

2.3 As the deadline for providing feedback from States/Administrations has already passed, there are only **FOUR** States/Administrations have provided feedback on the Plan so far. States/Administrations are invited to provide feedback on the draft Seamless ANS Plan through the respective POCs by email to the Secretariat at the earliest.

Operational Meetings and Focus Groups for the APAC

2.4 The South China Sea Traffic Flow Review Group (SCSTFRG) and the Bay of Bengal Traffic Flow Review Group (BOBTFRG) are the two ad hoc Small Working Groups formed by APANPIRG, subordinated to the South Asia, Indian Ocean, and Southeast Asia ATM Coordination Group (SAIOSEACG). The upcoming SCSTFRG/12 (November 11-12, Monday and Tuesday) and BOBTFRG/6 (November 14-15, Thursday and Friday) meetings will strategically align with the Free Route Airspace (FRA) Workshop in the same week.



Chart 1: Map for SCSTFRG and BOBTFRG.

2.5 Subsequently, the outcomes of both SCSTFRG and BOBTFRG will be reported to the upcoming SAIOSEACG/4 (March 18th—21st 2025, Bangkok, Thailand). The SAIOSEACG is designed to be the first meeting in the ATM section and kick off the discussion on each ATM-related topic for the year. Likewise, ATM/SG is usually considered a conclusion for the year to wrap up the discussion for ATM.

Support on PBN implementation

2.6 To meet the target set by ICAO Assembly Resolution A37-11 on PBN Global Targets, ICAO APAC RSO is supporting APAC States in their PBN implementation through different means:

- PBN Implementation Coordination Meeting where PBN implementation is monitored for all the region, where States are sharing their challenges and solutions;
- PBN Go team, where a group of experts of RSO and States/Industry is reviewing all the PBN programme, regulations and documentation of a State and make

recommendations to improve the situation;

- Specific PBN workshops/training on safety assessment, PBN for air traffic controllers, PBN in the En-Route phase, etc.

GBAS/SBAS Implementation Task Force

2.7 APAC RSO is supporting the deployment of augmented GPS systems in the APAC region to provide geometric vertical guidance on the final approach phase which will improve accessibility and safety as well as shorter routes. They are called GBAS for Ground Based Augmentation System and SBAS for Satellite Based Augmentation System. Few States have deployed GBAS stations at airports and some are conducting R&D. Regarding SBAS, five systems in the APAC region are operational or under deployment. RSO is the secretariat of the GBAS/SBAS Implementation Task Force (GBAS-SBAS ITF) which has just finalized a GBAS implementation guidance document, to be soon adopted by APANPIRG, and will finalize a second document on SBAS implementation guidance in the coming year. RSO is planning a second workshop with airspace users in 2025 if possible.

Free Route Airspace (FRA) Workshop

2.8 The second Free Route Airspace (FRA) Implementation Workshop in the APAC Region is scheduled for November 13th, 2024 (Wednesday). This event will strategically align with the SCSTFRG/12 (November 11-12, Monday and Tuesday) and BOBTFRG/6 (November 14-15, Thursday and Friday) meetings, enhancing the efficiency of collaborative efforts and maximizing travel economy for participants. The workshop aims to:

- Build a comprehensive understanding of FRA by discussing technical, regulatory, and operational aspects.
- Encourage active participation and collaboration, sharing challenges and best practices.
- Provide Member States with the knowledge and tools needed to transition to Free Route Airspace, aligning with global trends.

2.9 The Workshop offers a crucial opportunity for the APAC region to advance its airspace management systems. By participating, Member States will gain valuable insights into FRA deployment, align with global standards, and contribute to a more efficient and environmentally friendly future for international aviation.

2.10 Member States, Administrations, and International Organizations are invited to participate in the FRA Workshop. For those who have experience in FRA implementation, it would be greatly appreciated if they could share their lessons learned. For further information, contact the Regional Officer of ATM Mr. Kwon Hyuk Jin at Hykwon@icao.int.

Civil-Military Cooperation in ATM / FUA Webinar

2.11 The upcoming Civil-Military Cooperation in ATM / FUA Webinar for the APAC Region is scheduled for November 20th – 21st, 2024 to assist member States in enhancing Civil/Military ATM Cooperation and implementing FUA. The workshop will provide:

- Update on ICAO provisions, documents and guidance materials for the Civil-Military Cooperation.

- Introduction from APAC States/administrations on the Latest developments, lessons learnt and Challenges Faced.
- Share experience from other regions through real-case analysis, focusing on the construction of the three-level airspace management architecture under the FUA concept.

2.12 Participants from both Civil and Military sides are welcome to the Webinar. APAC States/administrations are invited to share their experiences. For further information, contact the ATM Regional Officer, Ms. Zhang Ying, at yingzhang@icao.int.

Capacity Assessment Workshop

2.1 A Capacity Assessment Workshop for the APAC Region is scheduled for November 14th -15th, 2024, to assist member States in the assessment of airport and airspace capacity. The workshop will provide:

- Update on ICAO provisions, documents and guidance materials for the Airport and Airspace Capacity Assessment.
- Sharing of experiences and best practices from APAC States/administrations and international organizations on the different methodologies, lessons learnt and challenges faced in the process.
- Some tabletop exercises on real-case scenarios for assessment of airports and airspace by the participants

2.2 Participants from ANSPs, Regulators, Airport Operators are welcome to the Workshop. For further information, contact Mr. M K Nelli, Regional Officer (ATM) at mnelli@icao.int.

UAS/RPAS Webinar

2.3 The Asia-Pacific Regional Sub-Office will host a UAS/RPAS webinar from 11 -12 December 2024. The event will address the disruption caused by illegal drones at airports worldwide, impacting aircraft safety and operations. This webinar will focus on detecting and countering unlawful drones to enhance airport efficiency and aviation safety.

2.4 The theme, "How to Detect and Counter Illegal Drones for Efficient Airport Operations and Aviation Safety," will cover:

- Updates on ICAO regulations related to UAS/RPAS, focusing on detection and response to illegal drones.
- The latest advancements in illegal drone detection technology.
- Sharing countermeasures and best practices for handling illegal drone incidents in the Asia-Pacific region.

2.5 Member States, Administrations, and International Organizations are invited to participate in the UAS/RPAS Webinar. For those who have experience in operating airports countering illegal drones, it would be greatly appreciated if they could share their lessons learned and the technology for detecting and identifying unlawful drones they have. For further information, contact the Regional ATM Officer, Mr. Kwon Hyuk Jin at Hykwon@icao.int.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
- a) note the information contained in this paper;
 - b) provide feedback on the draft version of the *Asia/Pacific Seamless ANS Plan V4.0*;
 - c) provide speakers for the upcoming Workshops/Webinars planned by RSO;
 - d) promote the above-mentioned Workshops/Webinars to the target participants; and
 - e) discuss any relevant matters as appropriate.

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