



ICAO

International Civil Aviation Organization

Fifteenth Meeting of the Asia/Pacific Air Traffic Flow Management Steering Group (ATFM/SG/15)

Bangkok, Thailand, 28 April – 02 May 2025

Agenda Item 7: Any Other Business

ICAO AIRPORT AND AIRSPACE CAPACITY ASSESSMENT WORKSHOP

(Presented by Secretariat)

SUMMARY

This paper presents information about the ICAO Airport and Airspace Capacity Assessment Workshop which will be held at Yogyakarta, Indonesia in June 2025.

1. INTRODUCTION

1.1 System capacity is a crucial concept in Air Traffic Flow Management (ATFM). Striving to improve system capacity is an integral part of ATFM. While airport capacity or airport throughput is a well-established concept, airspace capacity or sector capacity is still not universally implemented.

1.2 Knowledge of the capacity of air traffic control sectors or ATC operating positions is necessary for two reasons. Firstly, for long-term planning, adequate warning is required of any future shortfall in capacity, as indicated by traffic forecasts. Secondly, if there is already a shortage of capacity requiring the application of flow control, it is necessary to know what the capacity is, to limit air traffic to a level which does not overload the system or penalize the operators excessively.

1.3 The Regional Framework for Collaborative ATFM in the “Capacity Planning, Assessment and Declaration” section has brought out the critical importance of capacity studies for ATFM. In the following sections a brief overview of Capacity Assessment requirements and methods is presented.

2. DISCUSSION

Airport and Airspace capacity assessment Workshop

2.1 Capacity assessment is an essential part of ANS resources planning and improvements. It is also the first step in ATFM implementation.

2.2 ICAO Bangkok Office has previously (in 2019) conducted a capacity assessment and improvement workshop where states had shared their experiences.

2.3 During the three years of pandemic, international air traffic was greatly affected. Despite this, many States in APAC Region have augmented airport infrastructure such as operationalization of new airports, additional runways, and new airport terminals into the national airspace system. The experiences of States’ in planning such resource augmentation along with capacity impact studies will be greatly beneficial to other States looking for guidance in capacity assessment.

2.4 ICAO will be conducting an airport and airspace capacity assessment workshop from 02 to 05 June 2025. The workshop will be gratefully hosted by AirNav Indonesia at the Hotel Tentrem Yogyakarta, Yogyakarta, Indonesia. The meeting invitation and information bulletin are available on ICAO meeting website at [icao.int/APAC/Meetings/Pages/2025-Capacity-Assessment-WS.aspx](https://www.icao.int/APAC/Meetings/Pages/2025-Capacity-Assessment-WS.aspx). Registration via QR code below:



Figure 1: QR Code link to Workshop Registration

2.5 This workshop aims to equip participants with the knowledge and skills needed for assessment of airport and airspace capacity and the leveraging techniques for enhancement of airspace efficiency and air traffic flow management. The workshop intends to develop recommended actions and a draft Regional Guidance document to assist States in conducting capacity assessment of airports and airspace. It will also address the ICAO's Universal Safety Oversight Audit Programme (USOAP) requirements and the latest developments.

2.6 States and Administrations are invited to nominate subject matter experts and to share their experiences in conducting capacity assessment of airports and airspace sectors. A template for sharing the experiences of conducting airport and airspace capacity assessment is attached in Attachment A.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) nominate and contribute to the Airport and Airspace Capacity Assessment workshop as in para 2.6; and
- c) discuss any relevant matters as appropriate.

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