



ICAO

Fifth Meeting of the Asia/Pacific Airport Collaborative Decision Making Task Force (APA-CDM/TF/5)

Video Conferencing, 15 to 17 June 2020

**Agenda Item 2: Review Outcomes of Related Meetings/Seminars****AIRPORT COLLABORATIVE DECISION MAKING (A-CDM) INTEGRATION WITH AIR TRAFFIC FLOW MANAGEMENT (ATFM) WORKSHOPS**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the outcomes of A-CDM integration with ATFM Seminar/Workshop held in 2019. The main objective of the seminar/workshop was to improve understanding by all stakeholders of the benefits A-CDM integration with ATFM can offer. The participants from the Middle East region and African region were also invited to the workshop in India as India was located at the junction of the regions.

**1. INTRODUCTION**

1.1 ICAO published Doc 9971 - Manual on Collaborative Air Traffic Flow Management (ATFM) first edition in 2012, which the third edition came out in January 2018 to include Airport Collaborative Decision Making (A-CDM) section. The purpose of this manual was to provide guidance related to the concept of collaborative decision-making (CDM), and its use in ATFM as well as in airport operations through A-CDM.

1.2 Doc 9971 Part III (A-CDM) expands the reach of collaboration and describes how the CDM concept applies to airport operations and aircraft turnaround. Building on the experiences of various States in different regions, and reflecting the scalability needed to ensure efficiency, this manual identifies the roles and responsibilities of actors and stakeholders, and details the methods and tools that can be used in airport collaborative decision-making (A-CDM). As is the case for the section related to ATFM, a large part of the guidance material focuses on implementation guidance and is articulated around a proposed roadmap that can be adapted to local specificities.

1.3 In the Asia/Pacific Region, Regional ATFM Concept of Operations and Asia/Pacific Framework for Collaborative Air Traffic Flow Management approved by APANPRIG/26, held in Bangkok, Thailand, from 7 – 10 September 2015 are available on the ICAO APAC website.

<https://www.icao.int/APAC/Pages/eDocs.aspx>

1.4 Besides, the Asia Pacific Collaborative Decision Making (A-CDM) Implementation Plan was drafted by APA-CDM/TF and approved by the AOP/SG/3, held in Bangkok, Thailand, from 24 – 28 June 2019. It is also available on the ICAO APAC website.

[https://www.icao.int/APAC/Documents/edocs/APAC%20A-CDM%20Impl.%20Plan\\_First%20Edition%202019.pdf](https://www.icao.int/APAC/Documents/edocs/APAC%20A-CDM%20Impl.%20Plan_First%20Edition%202019.pdf)

## 2. DISCUSSION

### Seminars/Workshops

2.1 It is ICAO's role to conduct seminars/workshops on ATFM and A-CDM implementation for Member States in the APAC Region. In addition to the respective seminars/workshops, taking into account the importance of system/operation interoperability between them, ICAO APAC conducted A-CDM integration with ATFM seminar/workshop in 2019 as below.

- ATFM/A-CDM seminar (22 April 2019)
- ICAO/CANSO A-CDM Implementation Workshops (14 – 15 October and 16 – 17 October 2019)
- A-CDM integration with ATFM workshop (2 – 4 December 2019)

### ATFM/A-CDM seminar

2.2 ATFM/A-CDM seminar was conducted in conjunction with ATFM/SG/9 and APA-CDM/TF/4 with more than 140 participants from 16 Administrations, 4 International Organizations, and 3 Industry Representatives including Australia, Bangladesh, China, Hong Kong China, India, Indonesia, Japan, Republic of Korea, Malaysia, Mongolia, New Zealand, Philippines, Singapore, Thailand, USA, Viet Nam, CANSO, IATA, ICCAIA, IFALPA, ICAO, Aerial Maritime, VariFlight, and TMAS Technologies.

2.3 The seminar objectives were to gain knowledge of ICAO related documents; to share the lessons learned from States, Sub-regional groups, International organizations, and industry partners; to reconfirm the importance of the connection between ATFM and A-CDM; to assist States in developing an implementation plan and strategy for A-CDM integration with ATFM, and to be aware of ICAO's future moves.

2.4 The seminar was divided into three sessions on the topics: Implementation of ATFM/A-CDM, Communication (System) and Operation of A-CDM integration with ATFM modulated by Mr. Peter Chadwick (Hong Kong CAD), Mr. George Wong (Hong Kong CAD) and Mr. M K Nelli (Airport Authority of India), respectively. Thirteen presentations were provided by SMEs, including Australia, Hong Kong China, India, Japan, Singapore, Thailand, CANSO, IATA, ICAO, Aerial Maritime, and THALES.

### ICAO/CANSO A-CDM Implementation Workshops

2.5 ICAO-CANSO A-CDM Implementation Workshops were conducted in the ICAO Asia Pacific (APAC) Regional Office in Bangkok, Thailand on 15 – 16 October and 17 – 18 October 2019. The workshops were conducted by the CANSO Expert, Mr. Fredrik Lindblom.

2.6 The goal of the workshop was to enable participants to support the implementation of Airport Collaborative Decision Making (A-CDM) at high density airports in the Asia Pacific Region in line with the ICAO APAC A-CDM Implementation Plan (<https://www.icao.int/APAC/Pages/eDocs.aspx>). The workshop was composed of theoretical and practical parts, where the latter utilized the *Use Cases* to facilitate some of the procedural aspects of A-CDM and how they impact operations. This workshop made use of relevant ICAO documentation such as the above mentioned ICAO APAC A-CDM Implementation Plan as well as ICAO Doc 9971 and other relevant materials.

2.7 The workshop was primarily aimed for Airport Operator (Airport Operations and IT), Air Traffic Control/Air Navigation Service Providers (Airport/Tower Operations and Flow Management) and Airlines (Airline Operations and IT).

2.8 The workshops were attended by 37 participants from seven States/Administrations (Hong Kong, China, India, Nepal, Philippines, Thailand, Viet Nam and USA), IATA and ICAO.

#### A-CDM integration with ATFM workshop

2.9 A-CDM integration with ATFM workshop was conducted in New Delhi, India, from 2 – 4 December 2019. The workshop was kindly hosted by the Airport Authority of India, with 111 participants from 12 States and International organizations including Afghanistan, India, Indonesia, Kenya, Malaysia, Nepal, Philippines, Thailand, Uganda, and IATA.

2.10 The seminar objectives were to gain knowledge of ICAO related documents; to share the lessons learned from States, Sub-regional groups, International organizations, and industry partners, and to conduct a case study of the integration of A-CDM and ATFM.

2.11 The seminar was divided into seven sessions including a technical tour to C-ATFM Centre of AAI, on the topics: ATFM Implementation, A-CDM Implementation, Trans-regional Collaboration, ATFM training/education and Integration of A-CDM and ATFM. Eighteen presentations were provided by SMEs, including India, Kenya, Thailand, IATA, ICAO.

2.12 Airport Authority of India invited the workshop for the technical tour to the Central ATFM Centre and showed how AAI has integrated with Domestic ATFM and A-CDM. The technical tour was a very informative and excellent lesson learned for the workshop participants.

2.13 One of the strong points of the workshop was having participants not only from the APAC region but also from Africa and Middle East region to discuss trans-regional collaboration for growing air traffic among regions, as India is located at the junction of the regions. The workshop was reminded that the traffic demand between regions has been increasing along with economic growth.

2.14 From the feedback, ICAO was requested to continue conducting the workshops/seminars such as Cross border ATFM, Capacity assessment, Case studies and lessons learned, A-CDM/ATFM workshop with more airlines (e.g., pilots) and airport operators to be more interactive, in the future.

#### Future Seminars/Workshops

2.15 ICAO APAC Office has announced through the State Letter Ref: AP115/20 (RSO) dated 15 May 2020 a series of Webinars covering various topics of “Fundamentals of Air Navigation Services (ANS)”. The State Letter can be accessed at ICAO APAC secure portal [https://portal.icao.int/RO\\_APAC/Pages/StateLetters.aspx?year=2020](https://portal.icao.int/RO_APAC/Pages/StateLetters.aspx?year=2020). Two webinars related to ATFM and A-CDM are scheduled as follows:

- a) ATFM by ICAO – on 24 June 2020; and
- b) A-CDM Implementation by ICAO and CANSO – on 22 July 2020.

2.16 ICAO had planned a workshop on the integration of A-CDM and ATFM in Kuala Lumpur, Malaysia in support of CAA Malaysia in 2020. However, due to COVID-19 outbreak, the workshop needed to be postponed. After the situation became stabilized, it would be held accordingly in the future.

2.17 Supporting improved Airspace Organization and Management (AOM) to maximize Air Traffic Management (ATM) performance through ATFM and A-CDM is one of ICAO's roles. Such activities are conducted through workshops, seminars, technical assistants with all the APAC States and with the support of the aviation industry.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) seek States' needs on A-CDM/ATFM implementation, and
- c) discuss any relevant matters as appropriate.

—END—