



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TWENTY SIXTH MEETING OF THE ASIA/PACIFIC AIR NAVIGATION
PLANNING AND IMPLEMENTATION REGIONAL GROUP
(APANPIRG/26)**

Bangkok, Thailand, 7 – 10 September 2015

**Agenda Item 3: Performance Framework for Regional Air Navigation Planning and
Implementation**
3.2: ATM
**AIR TRAFFIC FLOW MANAGEMENT (ATFM) ACTIVITIES SUPPORTED BY
ICAO APAC REGIONAL SUB-OFFICE (RSO)**

(Presented by the Secretariat)

SUMMARY

This paper presents Air Traffic Flow Management (ATFM) and Collaborative Decision Making (CDM) implementation activities which ICAO APAC RSO are providing support to APAC States. The activities include supporting the Sub-Regional ATFM Collaborative Efforts among the States from North Asia (China, Japan and Republic of Korea), Mekong Coordination Group (Cambodia, Lao PDR, Myanmar, Thailand and Viet Nam) and BIMT (Bangladesh, India, Myanmar and Thailand). ICAO APAC RSO also conducts various ATFM/CDM workshops to support States in their ATFM/CDM implementation.

Strategic Objectives:

- A: **Safety** – Enhance global civil aviation safety
- B: **Air Navigation Capacity and Efficiency**—Increase the capacity and improve the efficiency of the global aviation system
- E: **Environmental Protection** — minimize the adverse environment effects of civil aviation activities.

1. INTRODUCTION

1.1 The ICAO APAC Regional Sub-Office (RSO) has made significant progress in the implementation support for Air Traffic Flow Management (ATFM) and Collaborative Decision Making (CDM) initiatives since 2013. The intention of this working paper is to share some of the key accomplishments on ATFM/CDM implementation activities as well as seek suggestions on any other helpful activities that ICAO APAC RSO would be able to support APAC States in the future.

2. DISCUSSION

Sub-Regional ATFM Collaborative Efforts

2.1 **North Asia:** At the 3rd Meeting of ATFM Steering Group (ATFM/SG/3) in March 2014, ICAO APAC RSO was entrusted by China, Japan and the Republic of Korea to facilitate the establishment of the North-Asia Regional ATFM Harmonization Group (NARAHG). Over the last

year, ICAO APAC RSO has supported NARAHG to conduct 2 meetings in August 2014 and March 2015 respectively and a third meeting scheduled in October 2015. During those meetings, NARAHG has made good progress in agreeing on the Principles of Cooperation and Terms of Reference (TOR). The Memorandum of Cooperation (MOC) has been planned to be signed at the third meeting in October 2015.

2.2 Airspace users had participated in NARAHG since the second meeting to share their plans and discuss related matters. Besides the NARAHG work program, ICAO APAC RSO has also assisted the three States in performing post operations analysis which provided a good platform for all States involved to understand each other's current situation and to look for a collaborative solution to improve the air traffic operations for 2 major traffic flows. The next steps for NARAHG would be to conduct operational teleconferences, exchanging ATFM Daily Plans as well as operational data. Mongolia and Hong Kong, China have currently expressed interest to participate in NARAHG activities.

2.3 Arising from a recent ATFM/CDM workshop conducted in Ulaanbaatar, Mongolia in June 2015, one of the recommendations from Civil Aviation Authority Mongolia (CAAM), was a request for ICAO to support CAAM in facilitating data sharing with its neighbors, specifically China and Russia. The proposal will be discussed internally within ICAO, among APAC, EUR/NAT and MID.

2.4 **BOB and South-east Asia:** The other 2 Sub-Regional ATFM Collaborative Efforts are with BIMT (Bangladesh, India, Myanmar and Thailand) and Mekong Coordination Group (Cambodia, Lao PDR, Myanmar, Thailand and Viet Nam). Both are currently informal groups, set-up by States' with the objective to improve traffic situation among them. ATFM harmonization has been included as a standing agenda for both these 2 informal groups and ICAO APAC RSO has been invited to facilitate the ATFM Agenda. ICAO APAC RSO intends to support BIMT to establish CDM teleconference with the support of FAA, and to conduct a Foundation ATFM Workshop for the Mekong Coordination Group in 2016.

ATFM/CDM Workshops

2.5 The first ATFM Workshop Asia Pacific 2014, hosted by ICAO APAC RSO was completed from 27 – 30 October 2014 where States/Administrations, Industry Partners, International Organizations and Research Institutes were invited to participate in this workshop to share their views, lessons learnt and success stories from implementing ATFM/CDM. The workshop aimed to heighten the awareness of ATFM and CDM principles among aviation service providers, International Organizations and aviation stakeholders. There was also a concurrent exhibition on ATFM/CDM solutions by industry partners to showcase their on-going activities.

2.6 With the successful conduct of the ATFM Workshop Asia Pacific 2014, ICAO APAC Regional Sub-Office (RSO) developed a workshop program that would assist Asia Pacific States in their implementation of ATFM/CDM. The workshop program consists of 3 different types of workshops where depending on States' readiness and applicability, States may wish to host and request for ICAO APAC RSO to conduct these workshops. By hosting a workshop, this would allow greater participation for the officers within the State to obtain and increase their awareness of ATFM and CDM.

2.7 **Foundation ATFM/CDM Workshops** were conducted to provide participants with a basic idea of ATFM/CDM based on the ICAO DOC 9971 (Manual on Collaborative Air Traffic Flow Management) and the Draft Regional Framework for Collaborative ATFM. This workshop could also include basic concepts of Flexible Use of Airspace (FUA) based on the ICAO Circular 330, Performance-Based Navigation (PBN) and airspace design, if so requested by States.

2.8 **Advanced ATFM/CDM Workshops** were conducted to provide participants with an in-depth understanding and application of ATFM/CDM, supporting the State's needs and situation including operational constraints. Therefore, the content of this workshop is intended to be State specific and may be conducted only for the State. This workshop may require a review / study on the current situation and constraints prior to the conduct of the workshop itself.

2.9 **Cross-Border ATFM Workshops** were currently conducted by the IATA-ICAO partnership and in cooperation with various Subject Matter Experts (SMEs) from States and International Organizations (e.g. Australia, China, Hong Kong China, India, Japan, New Zealand, Singapore, Thailand, FAA, CANSO and EUROCONTROL). The participants at the Cross-Border ATFM Workshop would get to understand the reasons for implementing Cross-Border ATFM and the experiences gained from existing Cross-Border ATFM implementations in the other parts of the world.

2.10 The schedule for the ATFM workshops in 2015 to be facilitated by ICAO APAC RSO were as follows:

	Duration	Workshop Type	Venue	Remarks	Status
1.	9 – 11 Feb 2015	Foundation	Yangon, Myanmar	All States in APAC were invited	Completed
2.	17 – 19 Jun 2015	Foundation	Ulaanbaatar, Mongolia	All States in APAC were invited	Completed
3.	29 – 31 Jul 2015	Foundation	Jakarta, Indonesia	Focus on Indonesia	Completed
4.	3 – 5 Aug 2015	Advanced	Yangon, Myanmar	Focus on Myanmar	Completed
5.	3 – 4 Sep 2015	Cross-Border	New Delhi, India	All States in APAC were invited	Scheduled
6.	21 – 22 Oct 2015	Cross-Border	Jakarta, Indonesia	All States in APAC were invited	Scheduled
7.	17 – 18 Nov 2015	Cross-Border	Bangkok, Thailand	All States in APAC were invited	Scheduled

Future Activities

2.11 The ICAO APAC RSO's objective is to improve airspace organization and management to maximize Air Traffic Management (ATM) performance across the APAC Region. To continue this objective, the ICAO APAC RSO will develop a work program to conduct workshops and support establishments of sub-regional ATFM/CDM. States are invited to provide suggestions on assistance as required, on matters related to ATFM/CDM.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the information contained in this paper;
- b) suggest any other activities in support of ATFM/CDM initiatives which would be beneficial to APAC States; and
- c) discuss any relevant matters as appropriate.

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