



ICAO APAC Webinars – Fundamentals of ANS

Airport Collaborative Decision Making (A-CDM)

Mr. Punya R. Shakya, *Regional Officer, AGA*

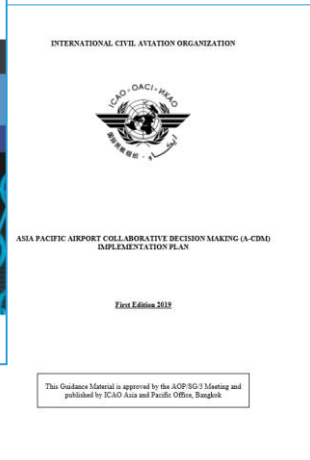
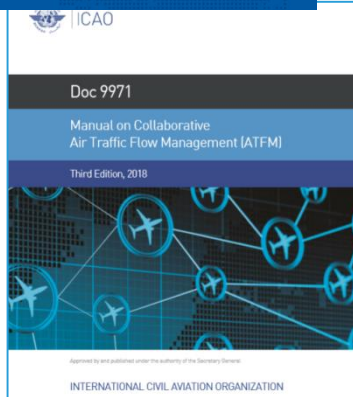
Mr. Fredrik Lindblom, *CANSO SME*





Objectives

- To share with participants:
 - Global and regional frameworks on A-CDM
 - APAC A-CDM Implementation Plan
 - APA-CDM/TF activities
- To provide a unique opportunity to participate in this webinar who normally could not attend APA-CDM/TF meetings and A-CDM Workshops.



Agenda

1. Global and regional framework for A-CDM
2. Technical and Operational aspects of A-CDM
 - Why A-CDM and Benefits
 - What is A-CDM?
 - “Best Practices” when implementing A-CDM
3. Q&A Session



GANP (Doc 9750)



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WELCOME TO THE GLOBAL AIR NAVIGATION PLAN PORTAL

The GANP Portal is a web portal where all aviation stakeholders will be able to find the most relevant information related to the GANP



THE GLOBAL AIR NAVIGATION PLAN

The Global Air Navigation Plan (Doc 9750) is the ICAO's highest air navigation strategic document and the plan to drive the evolution of the global air navigation system, in line with the Global Air Traffic Management Operational Concept (GATMOC, Doc 9854) and the Manual on Air Traffic Management System Requirements (Doc 9882). It also supports planning for local and regional implementation.

In order to better communicate with technical and high-level managers and to not leave any State or stakeholder behind, a multilayer structure, tailored for the various audiences, is proposed for the sixth edition of the GANP. This multilayer structure of four layers, two global levels, a regional level and a national one, would also provide a framework for alignment of regional, sub-regional and national plans.

MULTILAYER STRUCTURE OF THE GANP

GLOBAL STRATEGIC
 GLOBAL TECHNICAL
 REGIONAL
 NATIONAL



GLOBAL STRATEGIC ✕

Provides high-level strategic directions for decision makers to drive the evolution of the global air navigation system towards a common agreed

GANP STRAT

GLOBAL TECHNICAL ✕

Supports technical managers in planning the implementation of basic air navigation services and new operational improvements in a cost-effective manner.

ASBUs & PF **AN-SPA** **BBBs**

REGIONAL ✕

Addresses regional and sub-regional needs aligned with the global objectives.

AFI ANP **APAC ANP**
EUR ANP **NAM ANP**
CARSAM ANP

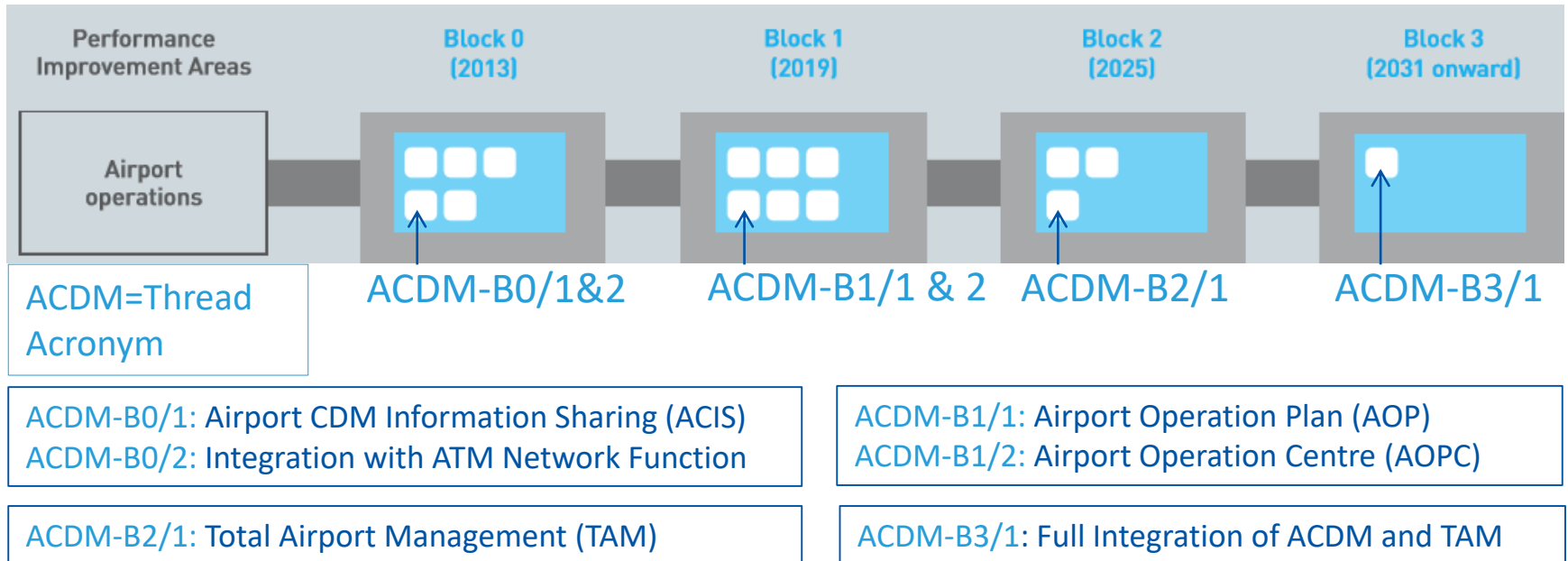
NATIONAL ✕

Development by States, in coordination with relevant stakeholders, of air navigation plans aligned with regional and global plans.

NANP TEMPLATE **CBA CHECKLIST**

■ <https://www4.icao.int/ganportal/>

A-CDM is addressed in the GANP, more specifically, in the Aviation System Block Upgrades (ASBUs), as the A-CDM thread under the Airport Operations Section of Performance Improvement Area 1.





FILTERS

Threads

ACAS	ACDM
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NAVS	NOPS
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RSEQ	SNET
SURF	SWIM
TBO	WAKE

Blocks

B0	B1	B2	B3
B4	B5	B6	BL

Maturity Level

Concept

Validation

Standardization

Ready for implementation

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ASBU ELEMENTS

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ACDM

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Functional Description
 Enablers
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 Performance Impact Assessment

ACDM

ACDM-B0/1	Airport CDM Information Sharing (ACIS)	Operational	📄 ⏪ ⏩
ACDM-B0/2	Integration with ATM Network function	Operational	📄 ⏪ ⏩
ACDM-B1/1	Airport Operations Plan (AOP)	Operational	📄 ⏪ ⏩
ACDM-B1/2	Airport Operations Centre (APOC)	Operational	📄 ⏪ ⏩
ACDM-B2/1	Total Airport Management (TAM)	Operational	📄 ⏪ ⏩
ACDM-B3/1	Full integration of ACDM and TAM in TBO	Operational	📄 ⏪ ⏩

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Beijing Declaration & Regional ANS Plan

- **Beijing Declaration Commitment** to implement ATFM/CDM for high density aerodromes by 2022
 - High density aerodromes (more than 100,000 aircraft movements per annum)
https://www.icao.int/APAC/Meetings/2018%20APACMC/Report%20of%20APACMC_FINAL_13%20Feb.%202018.pdf
- **ICAO APAC Seamless ANS Plan** recommends A-CDM ASBU elements for priority implementation at **all international aerodromes.**
<https://www.icao.int/APAC/Documents/edocs/Asia%20Pacific%20Seamless%20ATM%20Plan%20V%203.0.pdf>
- A-CDM Webinar:
 - **ACDM-B0/1: Airport CDM Information Sharing (ACIS)**
 - **ACDM-B0/2: Integration with ATM Network Function**

Asia/Pacific A-CDM Task Force (APA-CDM/TF)

➤ Decision APANPIRG/27/2 (September 2016)

- Establish APA-CDM/TF:

States (9): Australia, China, Hong Kong, China, India, Japan, Philippines, Singapore, Thailand, USA

IOs (2): CANSO, IATA

- **APAC A-CDM Implementation Plan, First Ed. 2019**

https://www.icao.int/APAC/Documents/edocs/APAC%20A-CDM%20Impl.%20Plan_First%20Edition%202019.pdf



➤ ICAO/CANSO A-CDM Implementation Workshops, 15-18 October 2019

<https://www.icao.int/APAC/Meetings/Pages/2019-A-CDM-WS.aspx>

➤ A-CDM integration with ATFM workshop, New Delhi, India, from 2 – 4 December 2019

<https://www.icao.int/APAC/Meetings/Pages/2019-A-CDM-ATFM-WS.aspx>



Asia/Pacific A-CDM Task Force (APA-CDM/TF)

- Decision APANPIRG/30/3 (4 – 6 Nov. 2019)
 - Extension of the APA-CDM/TF for two years (until APANPIRG/32)
 - Absorb the work of APA-CDM/TF by ATM/SG
- APA-CDM/TF/5 (15-17 May 2020) agreed to work towards integration of A-CDM with ATFM
 - Develop joint operational procedure guidance for the integration of ATFM and A-CDM operations
 - Identify data attributes necessary to support the A-CDM and ATFM integrated operations
 - Update the APAC A-CDM Implementation Plan



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