

Progress of the ATFM Concept Design Ad-Hoc Group

ATFM & A-CDM/SG/16
6 – 10 April 2026

Topics

- Introduction to the Group
- Working Arrangement
- Progress of Phase 1
- Framework for Phase 2



Introduction: ATFM Concept Design Ad-Hoc Group

*Decision ATFM/SG/15-6: Establishment of the **APAC ATFM Concept Design Ad-Hoc Group** to deliver a new version of the APAC Regional ATFM Concept of Operations by 2027*

- 36** Representatives
- 10** Observers
- 11** States/Admins
- 3** Int'l Orgs

Decision ATFM/SG/15-6: Establishment of Asia/Pacific ATFM Concept Design Ad-Hoc Group

That, ATFM/SG establishes the Asia/Pacific ATFM Concept Design Ad-Hoc Group to review and redesign the regional ATFM concept of operations, considering the challenges of the current operations and the advent of new capabilities and concepts including but not limited to SWIM, FF-ICE, TBO. Key deliverable of the Ad-Hoc Group will be the new version of Asia/Pacific Regional ATFM Concept of Operations, guided by the group's Terms of Reference (TOR) as Appendix E to the Meeting Report.



Working Arrangement: Expected Deliverables

Draft Revised Regional ATFM Concept of Operations



*Concept of Operations to address
Short-Term Challenges (2028)*



*Concept of Operations for
Mid-Term Improvements (2032)*



*Conceptual Framework for
Long-Term Vision (2035)*

Working Arrangement: Team Organization

Roles	Responsibilities
Co-Rapporteurs	<ul style="list-style-type: none">▪ Coordinate and facilitate the Ad-Hoc Group’s activities▪ Liaise with ATFM/SG Chair and ICAO Secretariat▪ Support overall work progress by helping align efforts across working teams
Work Area Point of Contact (POC)	<ul style="list-style-type: none">▪ Establish relevant tasks within the work area▪ Coordinate the tasks within the work area to ensure outcomes▪ Coordinate with Co-Rapporteurs on the work area progress
Task Teams	<ul style="list-style-type: none">▪ Contribute to the tasks, ensuring compliance with deadlines

Working Arrangement: Work Plan Overview



Phase 1: Gaps and Needs Analysis

Phase 2: Concept Development

Phase 3: Finalization of Docs

Phase 4: Implementation Principles

Phase 4: Final Review

Phase 1: Review of Existing Practices

Core Task: Review existing ATFM concept and practices in the region



Knowledge & Coordination Gaps

Limited competency on capacity assessment, limited awareness of ATFM, inconsistent data availability, sub-optimal info exchange



System & Tech Integration Gaps

Fragmented platforms, absence of regional display, delayed flight updates, limited automation support



Governance & Standardization Gaps

Low CTOT compliance, low participation rates in ATFM measure, limited options of ATFM solutions, absence of standardized POA

Phase 1: Stakeholders' Surveys

Core Task: Survey regional ATS authorities & airspace users on ATFM

25 Distinct ATS Authorities

41 Distinct Airspace Users

75% Need an ATFM service of some form

90% Support expansion of the AMNAC initiative

70% AMNAC initiative meeting the needs

75% Support expansion of AMNAC

Improve flow of ATFM info

Improve transparency and collaboration

Standardize DCB methods among ATFM nodes

SWIM-based rapid info sharing

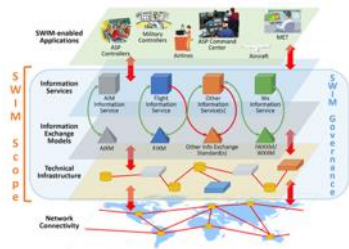
Resolve conflicting measures

Use more ATFM solutions

Improve coord. & governance

Phase 1: Identification of Tech & Ops Enablers

Core Task: Review tech advancements and emerging ops enablers



SWIM to supporting service-oriented interoperability and seamless cross-border information exchange

Image: ICAO Doc 10039, 1st Ed. (2024)

FICE-B2/1	Planning Service
FICE-B2/2	Filing Service
FICE-B2/3	Trial Service
FICE-B2/4	Flight Data Request Service
FICE-B2/5	Notification Service
FICE-B2/6	Publication Service

FF-ICE/TBO to support structured 4DT-based flight planning enabling high-fidelity demand forecasting and tailored, flight-specific solutions

Image: ICAO GANP Portal

AI/ML to derive insights from information-rich SWIM/FF-ICE/TBO environment, enabling dynamic and automated decision-making

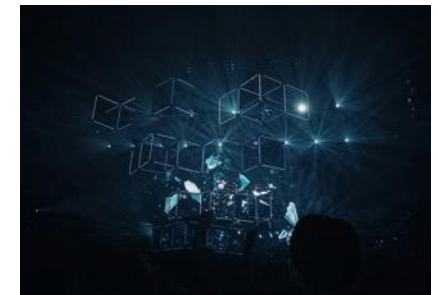


Photo by [fabio](#) on [Unsplash](#)

Phase 2: Framework for ConOps Development

Work Area 2.1
POC: Singapore

Work Area 2.2
POC: Thailand

Work Area 2.3
POC: China

	Short-Term	Mid-Term	Long-Term
Implementation Period	2028 – 2032	2032 – 2035	Beyond 2035
Potential methods or enablers to improve operations	<ul style="list-style-type: none"> Refining or improving current ATFM processes Make better use of existing tools or systems for information exchange 	<ul style="list-style-type: none"> Develop concept to harmonise with future ATM operational concepts Leverage technological enablers for improved regional coordination e.g. SWIM, FF-ICE 	<ul style="list-style-type: none"> New technology deployment, i.e., adoption of AI/Machine Learning Infrastructure transformation Potential new concept of ATFM operations for the APAC region to facilitate regionally optimized ATFM solutions
Resource Requirements	Low to moderate investment	Moderate to high investment	High investment Multi-year programmes

Any Questions / Comments?



Thank You

