



ICAO

RECONNECTING THE WORLD

AAC/2 Singapore
22-23/10/2023

AGENDA ITEM 3

*Outcomes of discussion
on 22 October 2023*

Presented by Work Stream 2

Items discussed

1**Seamless ANS – Survey on implementation challenges faced by APAC ANSPs**

- Sharing on preliminary analysis
- Next steps

2**ATFM – Asia-Pacific Multi-Nodal ATFM Collaboration (AMNAC)**

- Joint presentation by AEROTHAI, CAAS and HKCAD on post-ops analysis, challenges faced and work programme for 2024

3**TBO – APAC TBO Pathfinder Project**

- Discussion on objective, desired outcomes and timelines

4**Next Steps for WS2**

Seamless ANS – Survey on implementation challenges faced by APAC ANSPs

Preliminary analysis of survey results

- Responses from 5 ANSPs so far (Cambodia, Japan, Hong Kong China, Singapore and United States)
- Common implementation priorities observed, e.g. SWIM, AMAN, DMAN, TBO and new ANS systems
- Common challenges faced by respondents, e.g. lack of funding, lack of cost-effective technology solutions, challenge to recruit / train qualified personnel and in sufficient numbers
- Responses mostly agreed on need for more regional initiatives to support ANS implementation of technologies / procedures

Next Steps

- Propose to extend submission deadline to 31 Dec 2023 (align with WS1) to gather more data, e.g. three WS2 members indicated they will submit if given more time
- Product – Implementation strategies to accelerate seamless ANS implementation

ATFM – Asia-Pacific Multi-Nodal ATFM Collaboration (AMNAC)

Joint presentation by AEROTHAI, CAAS and HKCAD on post-ops analysis, challenges, and work programme for 2024

- High percentage of CTOT compliance (i.e. > 70%) observed from Level 3 nodes
- Need to incentivise ANSPs to level up to Level 3, to better address demand capacity imbalance
- The list of current members and their respective participation level in AMNAC is as follow:

Participation Level	Expected Capabilities	Current Members
Level 3	<ul style="list-style-type: none">• Able to generate, deliver and receive CTOTs• Able to comply with CTOTs from Level 3 nodes	Cambodia, China, Hong Kong, Singapore, Thailand
Level 2	<ul style="list-style-type: none">• Able to comply with CTOTs from Level 3 nodes	Indonesia, Malaysia, Myanmar, Philippines, Vietnam
Level 1	<ul style="list-style-type: none">• Observe and participate in the project progress	Lao PDR
Observer	-	India, Japan, Republic of Korea

- WS2 noted the CY24 plans to enhance AMNAC (e.g. ATFM workshop, better collaborative tools instead of emails)



ICAO

RECONNECTING THE WORLD

AAC/2 Singapore

22-23/10/2023



TBO – APAC TBO Pathfinder Project

Discussion on objective, desired outcomes, and timeline

- CAAS shared its views on the objective, desired outcomes, and broad timelines of the project
- Meeting provided feedback, as part of readying capabilities in Year 2 in preparation for lab demonstration in Year 3, to conduct a small-scale technical exercise. This allows participants a better appreciation of the technical capabilities required
- Meeting discussed to allow observers, and for observers to contribute actively, e.g. investigate changes in operational procedures
- Meeting acknowledged the need to set realistic targets, as the realisation of TBO is not expected to take place overnight
- All stakeholders including ANSPs, airport operators and airspace users are likely expected to be operating in a mixed mode environment for a foreseeable amount of time



ICAO

RECONNECTING THE WORLD

AAC/2 Singapore

22-23/10/2023



Next Steps for WS2

- To work with project participants and observers to **progress TBO concept in APAC**, through the APAC TBO Pathfinder project
- To **build on and leverage** efforts across all work streams
- To continue **encouraging more ANSPs to join** the work stream 2 by raising awareness of its work

Thank You

