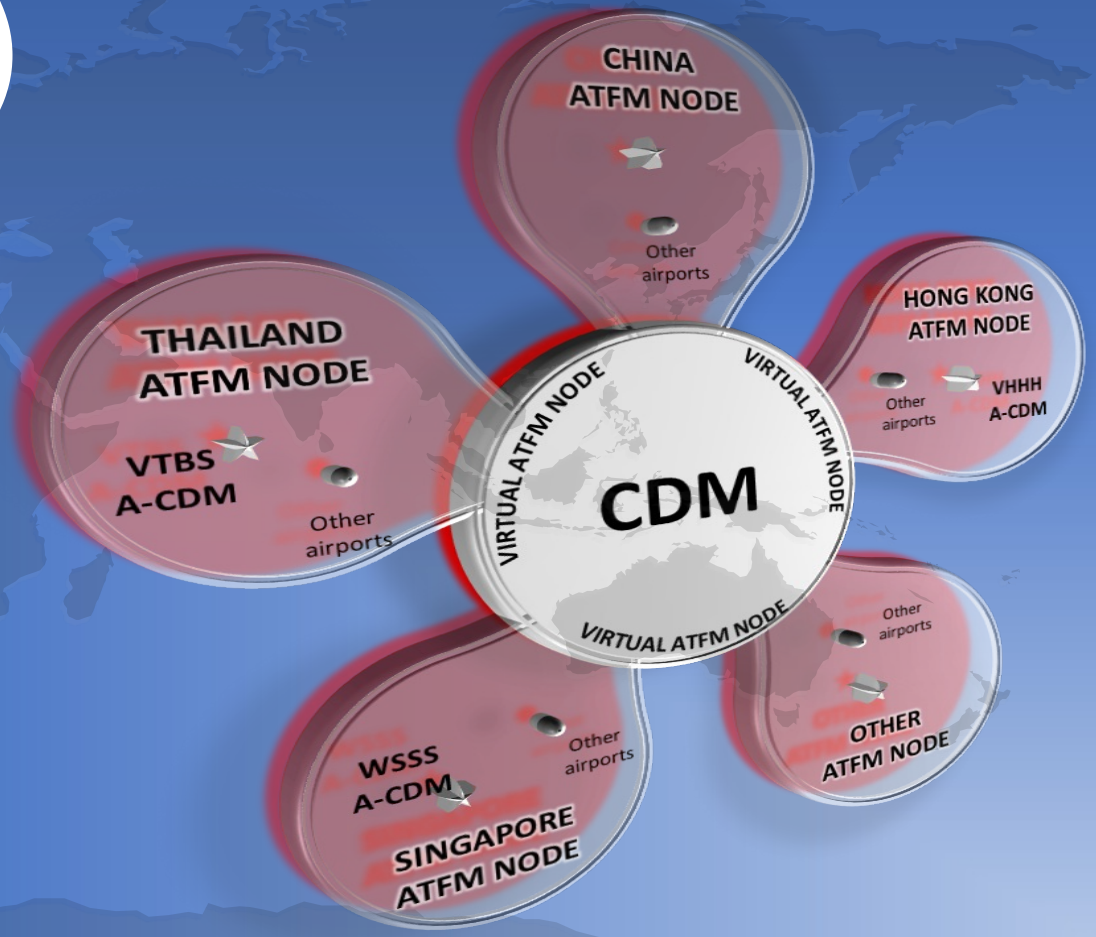
APAC Cross-Border Multi-Nodal ATFM Collaboration (AMNAC)

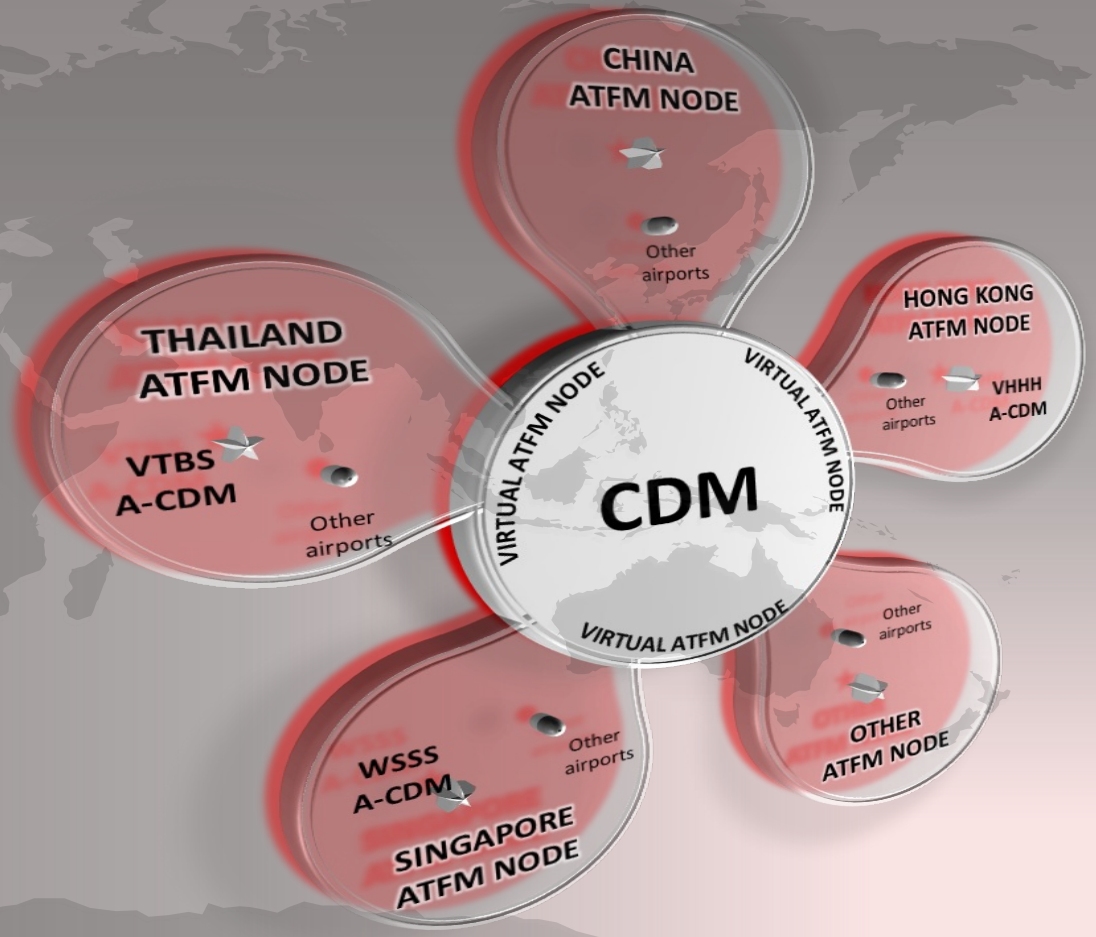
Progress Update



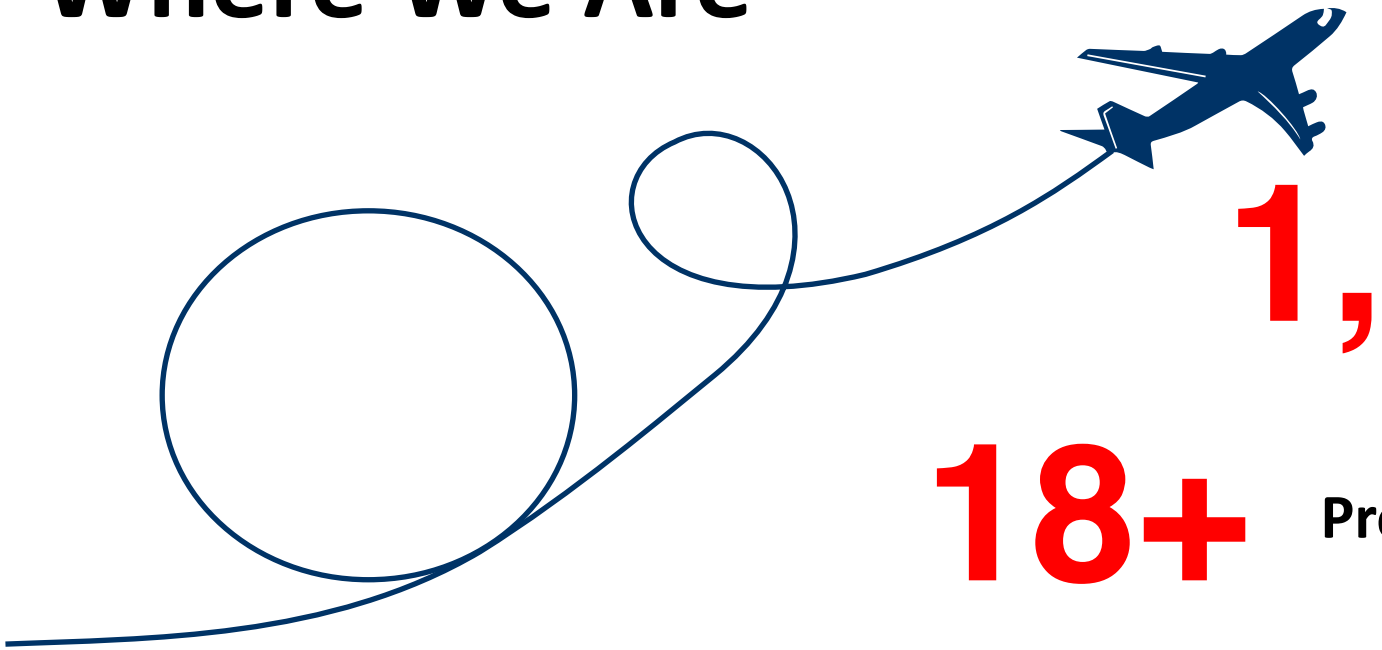
ATFM/SG/12

13 – 16 September 2022

Operational Progress Updates



Where We Are



1,000+ Rounds of distributed ATFM programs (GDPs) activated

18+ Project meetings

11 ANSPs participating in the project
(+ Airservices Australia in the beginning)

7+ Years since the start of the implementation (2015 – Today)

DISTRIBUTED MULTI-NODAL ATFM NETWORK

Where We Are

Tiered Level	Capabilities & Members
Level 3	▪ Able to generate, deliver, and receive CTOTs; ▪ Able to comply with CTOTs from all Level-3 ATFM Nodes *Current members:* ▪ Cambodia, China, Hong Kong China, Singapore, Thailand
Level 2	▪ Able to comply with CTOTs from all Level-3 ATFM Nodes *Current members:* ▪ Indonesia, Malaysia, Myanmar, the Philippines, Viet Nam
Level 1	▪ Observe and participate in the project progress *Current members:* ▪ Lao PDR

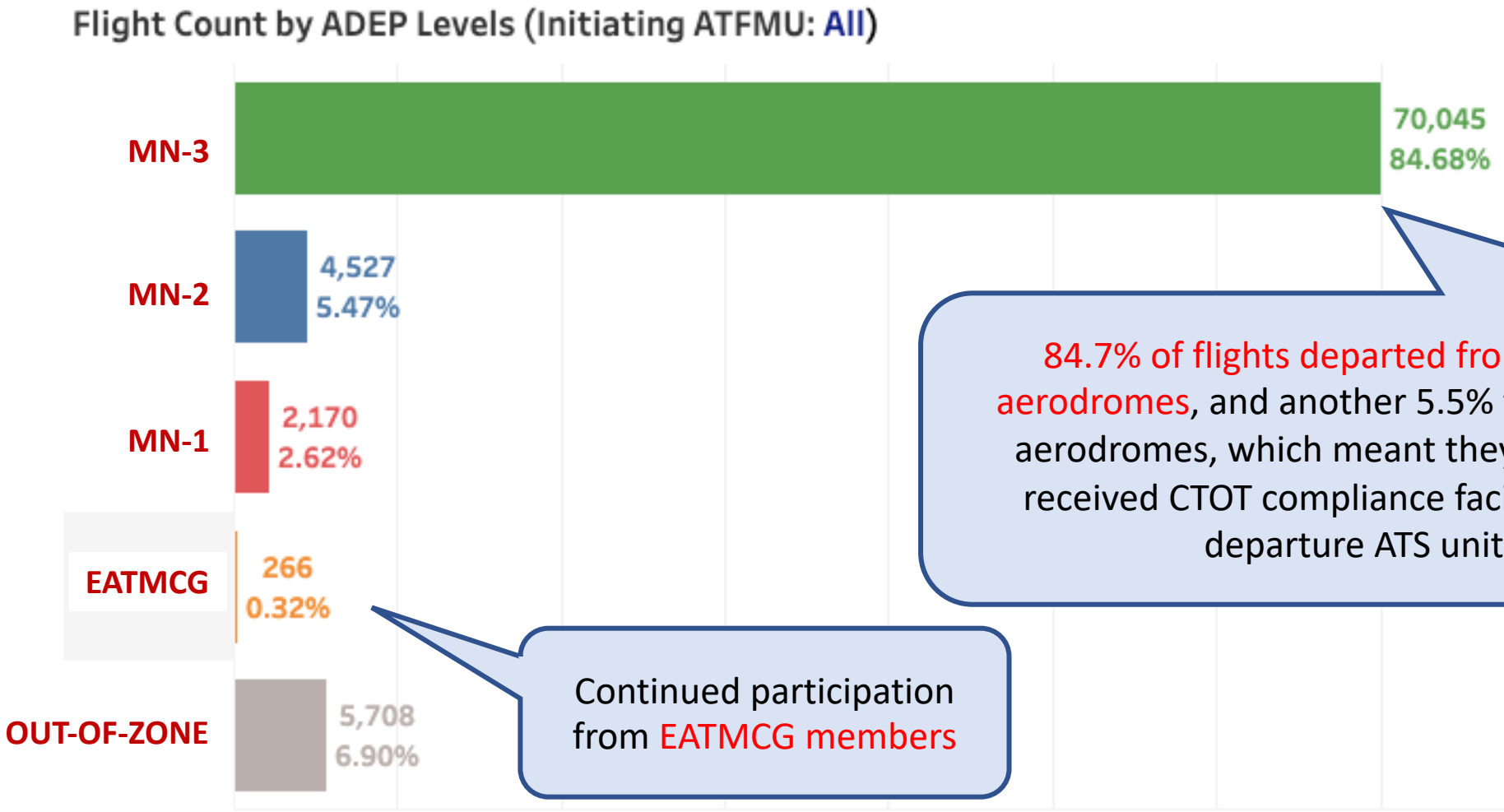
+ Occasional participation from Japan and Republic of Korea as meeting observers

Network Post-Operations Analysis

	Bangkok	Hong Kong	Phnom Penh	Sanya	Singapore
Impacted Flights	49,977	621	954	30,035	1,129
# of ATFM Days	467	28	47	451	31
Total Assigned ATFM Delay	373,202	1,606	4,830	111,835	19,224
Average Assigned ATFM Delay	7.47	2.59	5.06	3.72	17.03

(Data from January 2019 onward)

Network Post-Operations Analysis



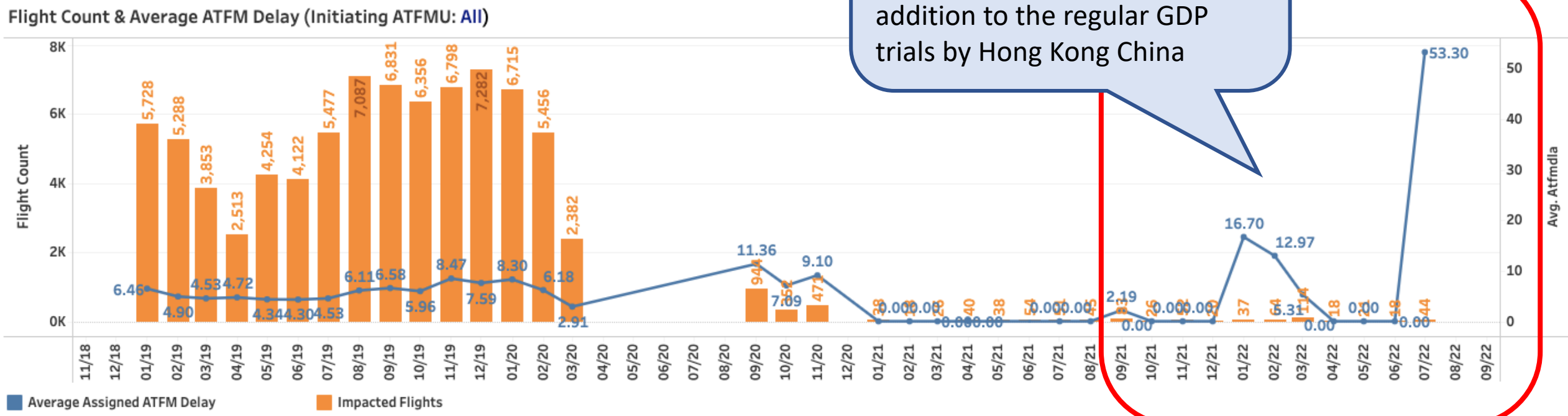
84.7% of flights departed from "Level-3" aerodromes, and another 5.5% from "Level-2" aerodromes, which meant they should have received CTOT compliance facilitation from departure ATS units.

Continued participation from EATMCG members

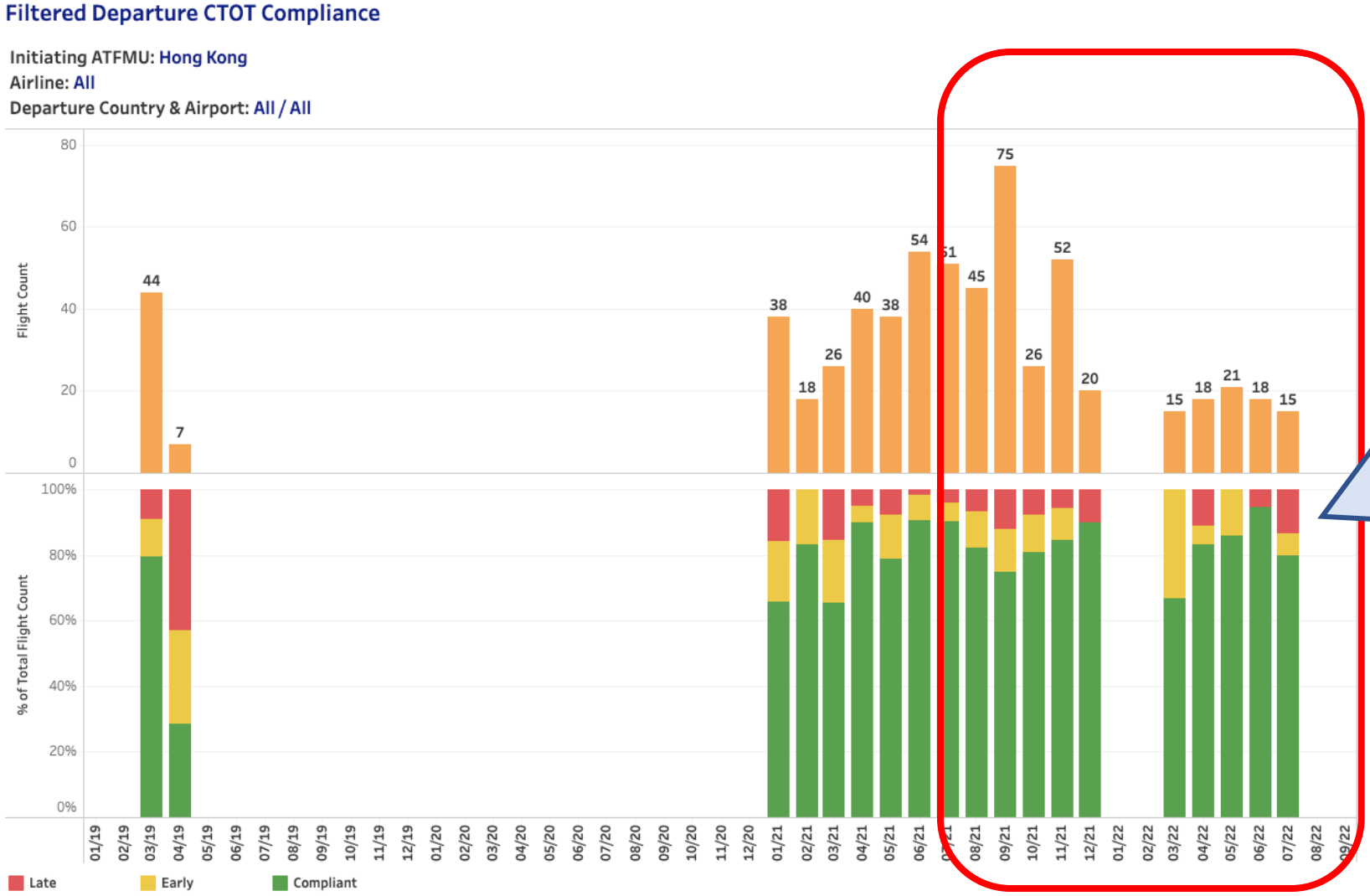
(Data from January 2019 onward)

Network Post-Operations Analysis

Some ATFM measures (GDPs) were activated in response to special events and infrastructure outages, in addition to the regular GDP trials by Hong Kong China

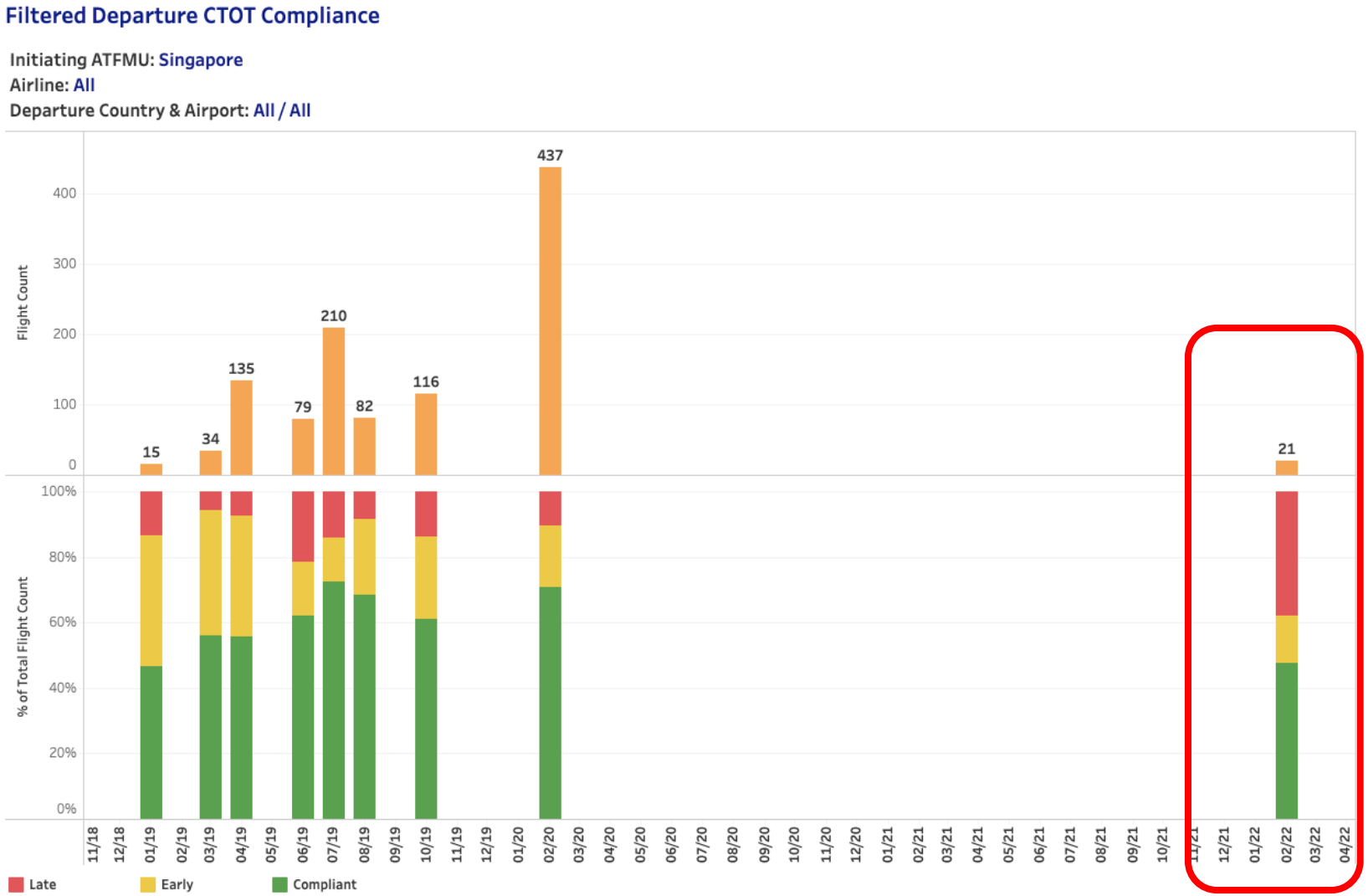


Network Post-Operations Analysis



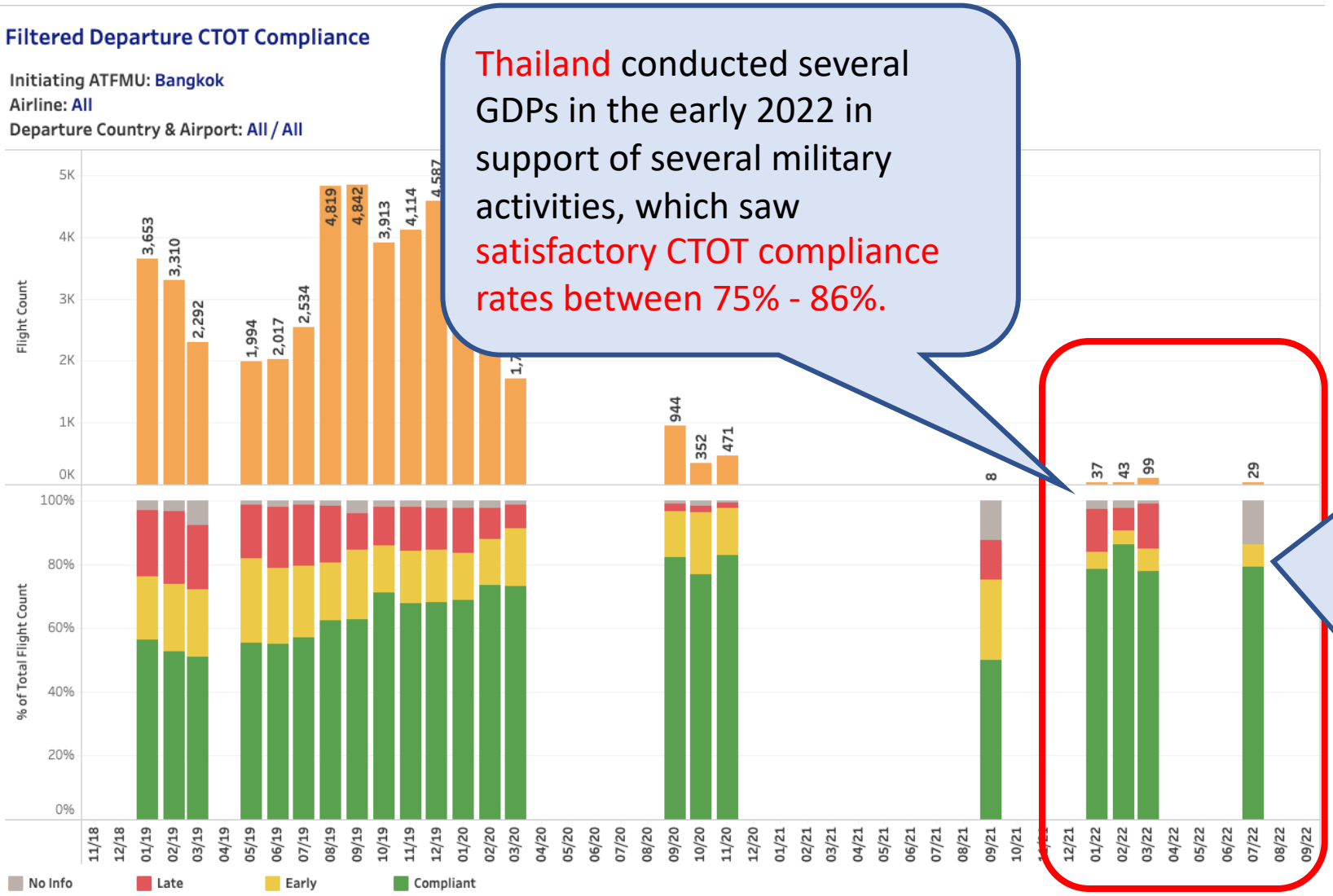
Hong Kong continued with the GDP trials throughout late 2021 and early 2022, affecting 15 – 20 flights per month. The trials saw high CTOT compliance rate between 70% - 95% consistently, albeit with some issues relating to late FPL submission and lapses in updates through CHG and CNL messages.

Network Post-Operations Analysis



Singapore conducted GDPs in February 2022 in support of the Singapore Airshow 2022, with a low CTOT compliance rate of 47.6%.

Network Post-Operations Analysis



Thailand conducted several GDPs in the early 2022 in support of several military activities, which saw satisfactory CTOT compliance rates between 75% - 86%.

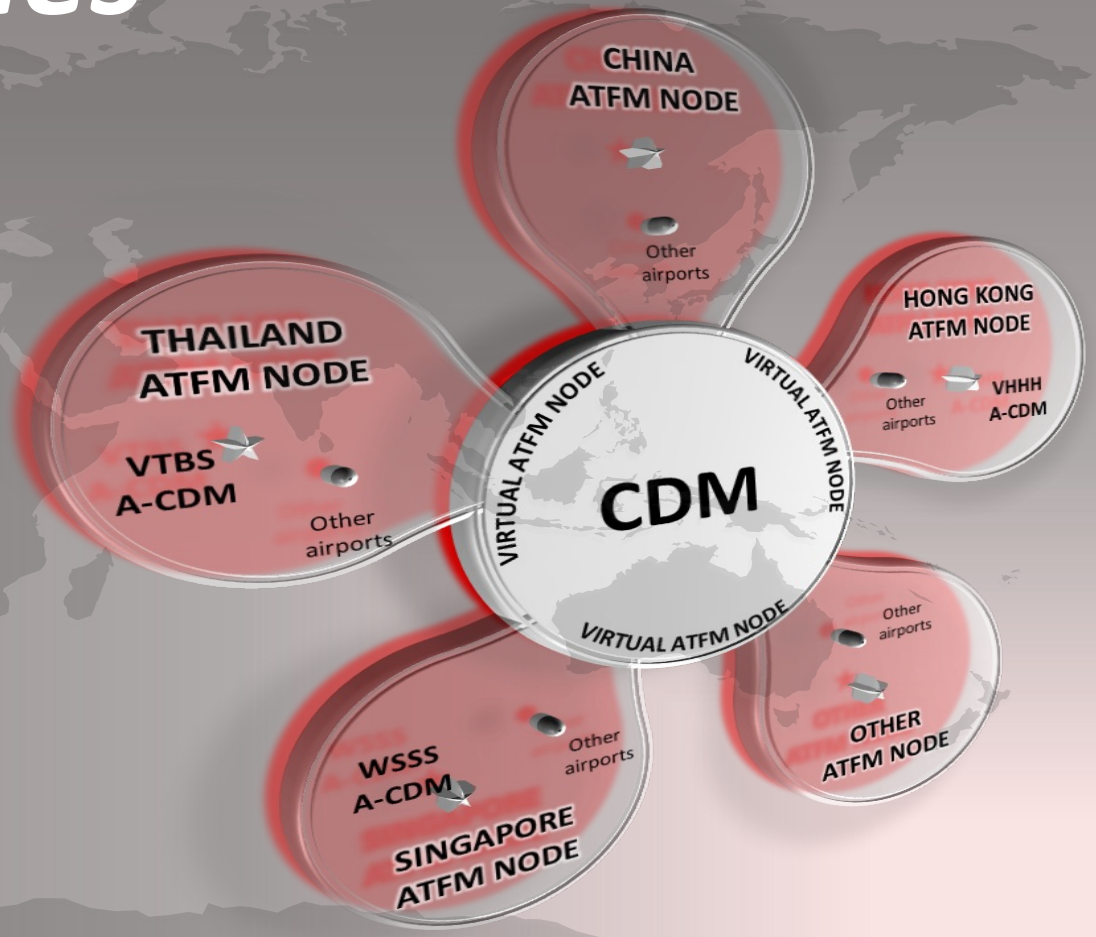
Thailand also conducted a GDP in July 2022 in response to runway outage at VTSP, which impacted the operations significantly. Despite the large ATFM delays (averaging 86 mins/flt), CTOT compliance was high; resulting in effective management of the situation with no airborne delay being experienced by the airspace users.

MN Network Post-Operational Analysis Results

Interactive Dashboard

http://bit.ly/amnac-poa

Regional ATFM Strategies



Collaboration during COVID-19 Pandemic

- ATM/ATFM Status Update process continues to be participated by many AMNAC members, as well as Japan and Republic of Korea
- Bi-weekly ATFM planning conferences held once every 2 weeks, with invitation extended to some States outside of AMNAC
- Status Update documents kindly hosted by ICAO APAC at their COVID-19 Information Sharing Webpage

Proposal: APAC Bi-Weekly ATFM Web-Con

- The AMNAC group has extended invitation for the bi-weekly web-conference to beyond AMNAC members, e.g., Japan and ROK
- **The group proposes to rename the activity to APAC Bi-Weekly ATFM Web Conference and have it opened to all APAC members**
- While some sessions will be short, upkeeping the CDM practice is beneficial for the region

Proposal: APAC Bi-Weekly ATFM Web-Con

To request invitation to the web conference, States can contact:

- **Hong Kong China**
  - Hong Kong ATFMU: hkatfmu@cad.gov.hk
  - Mr. Anfernee Poon: awhpoon@cad.gov.hk
- **Singapore**
  - Singapore ATFMU: caas_atfmu@caas.gov.sg
- **Thailand**
  - Bangkok ATFMU: atfm@bobcat.aero
  - Mr. Dudsadee Sungthong: dudsadee.su@aerothai.co.th
  - Mr. Sugoon Fucharoen: sugoon.fu@aerothai.co.th

Expanding the Distributed ATFM Network

DP/4/14, Action Item 57/24:

"The conference encouraged States/Administrations to coordinate with the ICAO APAC ATFM/SG on consideration of inclusion of GDP trial guidance in the Regional Framework for Collaborative ATFM."

APAC Regional ATFM Framework, Performance Improvement Plan, 7.25

"All States should ensure that local ATC procedures and, where available, CDM processes facilitating compliance with received CTOT are implemented."

INTERNATIONAL CIVIL AVIATION ORGANIZATION

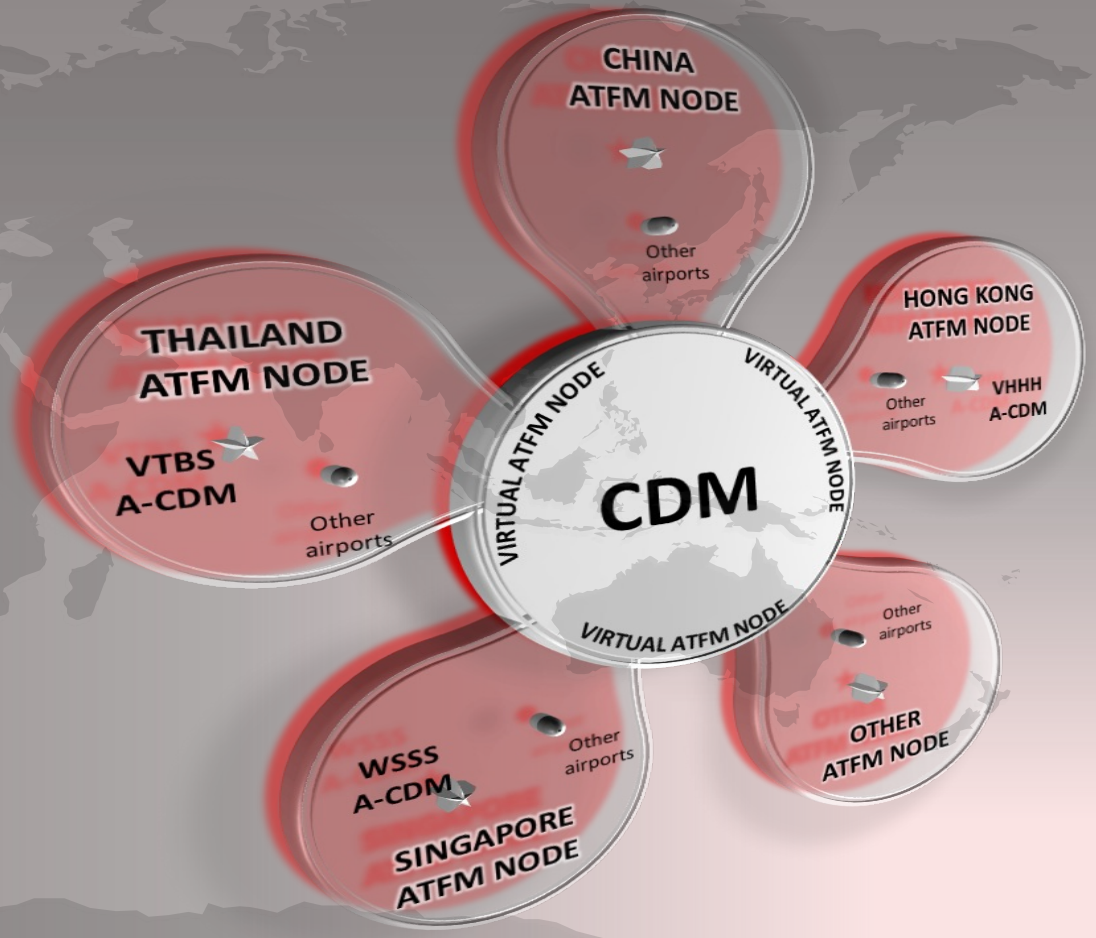
ASIA/PACIFIC FRAMEWORK
FOR
COLLABORATIVE AIR TRAFFIC FLOW MANAGEMENT

DISTRIBUTED MULTI-NODAL ATFM NETWORK

Action by the Meeting

- ❑ Note the information contained in this paper
- ❑ Consider supporting and participating in the APAC Bi-Weekly ATFM Web Conference
- ❑ Ensure local procedures to facilitate the compliance with CTOT initiated by any States/Administrations in the region are established
- ❑ Discuss any other matter as required

Thank You!


CHINA
ATFM NODE
Other
airports
HONG KONG
ATFM NODE
Other
airports
VHHH
A-CDM
THAILAND
ATFM NODE
VTBS
A-CDM
Other
airports
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