



Agenda Item 4: Review of Current ATFM Operations and Problem Areas

UPDATE ON THE A-CDM, ATFM IMPLEMENTATION IN VIET NAM

(Presented by Viet Nam)

SUMMARY

This paper updates on the A-CDM, ATFM implementation in Viet Nam

1. INTRODUCTION

1.1 Noi Bai international airport and Tan Son Nhat international airport are 2 major airports in Viet Nam. By 2024, Terminal T2 at Noi Bai international airport will be expanded to raise the capacity up to 15 million passengers (MPA), this will raise the total capacity of Noi Bai international airport to 30MPA, 189,000 movements. By 2030, one terminal will be built, having the capacity 10 MPA. While Tan Son Nhat international airport with terminal 1 and 2 expanded to raise the capacity up to 30 MPA, 260,000 movements. New T3 terminal is building with the capacity of 20 MPA. Since 2017, Viet Nam has issued the implementation plan and established The steering Board of A-CDM project. In 2020, Viet Nam (ACV) signed a contract with To70 consultant to provide consulting services, training, implementing and assessment of the application of the A-CDM model at Noi Bai International Airport and Tan Son Nhat International Airport. Moreover, Viet Nam has participated in the Asia/Pacific Distributed Multi-Nodal ATFM Network as a Level 2 ATFM Node. In this IP, Viet Nam will update on the A-CDM, ATFM implementation in Vietnam.

2. DISCUSSION

Operational demands in Viet Nam over the past few years

2.1 In 2019, Vietnam Air Traffic Management Corporation (VATM) provided ANS services for over 972,000 flights in its area of responsibility. However, due to the negative impact of the COVID-19, the total traffic movement has decreased, with the total number of 423,000 flights, approximately 43% compared to 2019, of which, over flights reached 141,000, approximately 30% compared to 2019. In 2021, the total traffic movement continued to decrease to 293,000 flights.

2.2 However, when the COVID-19 started to be controlled and many countries in the region reopened the borders, the traffic movement in Viet Nam has increased rapidly. The total number of traffic movement in 2022 reached 541,000 flights, approximately 184% compared to 2021. The total number of passengers travelling by air reached approximately 55 million of people, 3.7 times more than the year 2021, approximately 69.9% compared to the highest year before COVID-19 (year 2019).

2.3 In 2023, it is expected that the COVID-19 still to be well controlled along with the opening of aviation market in the region, the traffic movement in Viet Nam is expected to continue

to increase at high rate.

A-CDM project in Viet Nam

2.4 A-CDM project in Vietnam is implemented at Noi Bai international airport and Tan Son Nhat international airport. A-CDM project has 2 phases: Phase 1 – TOBT/TSAT trial. Phase 2 – Full A-CDM – ATFM integration. Phase 1 includes 5 steps: System test (about 3 months), Function test (2 months), System and scenarios validation (1.5 months), Training (1 month) and Live trial (1 month). Until now, Step 4 is being run. Live trial is expected to run in March 2023.

Status of ATFM implementation

CTOT compliance from Level 3 ATFM Nodes

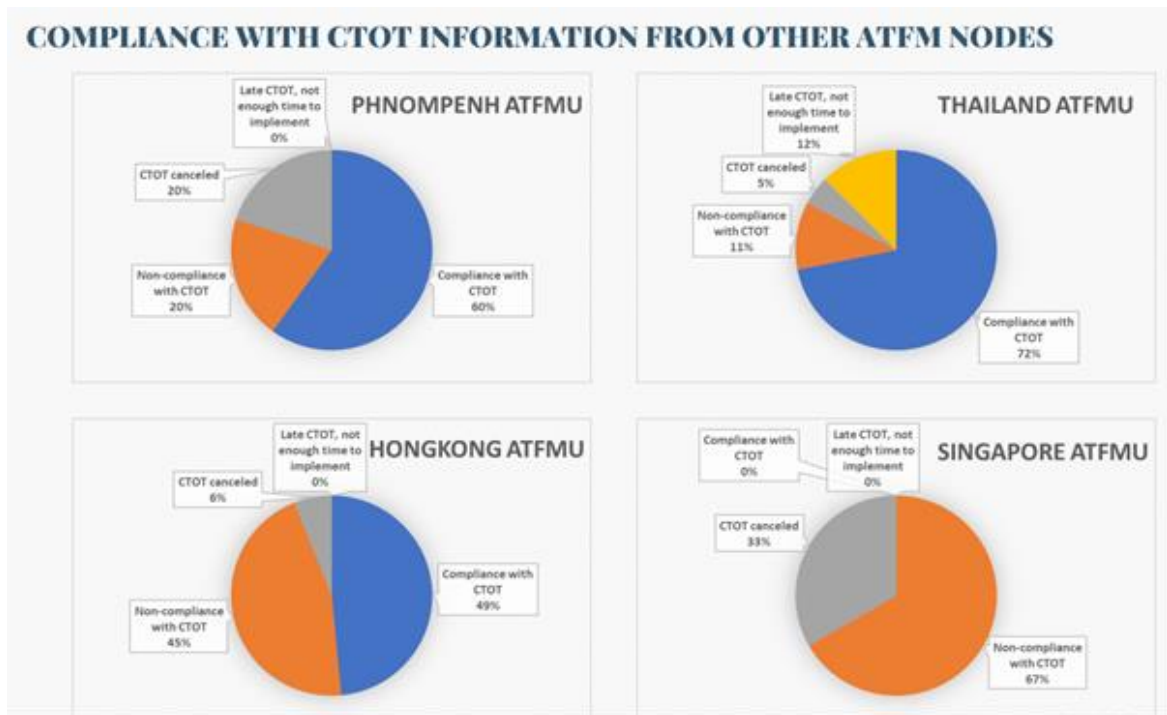
2.5 In March 2020, Civil Aviation Authority of Viet Nam (CAAV) issued the Level 2 multi-node ATFM operation procedure in Viet Nam applied for 6 international airports, including Noi Bai (VVNB), Da Nang (VVDN), Tan Son Nhat (VVTS), Cat Bi (VVCI), Cam Ranh (VVCR), Phu Quoc (VVPQ).

2.6 Besides, Viet Nam has developed and issued training programs for ATFM officers, including ATFM supervisor and ATFM staff ...etc..

2.7 In 2022, Vietnam Air Traffic Flow Management Center (ATFMC), VATM received information of 105 flights that applied CTOT measure from Level 3 ATFM Nodes in the region, including:

- Phnom Penh ATFMU: 5 flights
- Thailand ATFMU: 64 flights
- Hong Kong ATFMU: 34 flights
- Singapore ATFMU: 2 flights.

2.8 Among of these flights, CTOT compliance rate was approximately 72.22%, non-compliance is 27.78%, CTOT cancellation is 6.7%, late issued CTOT is 7.6%.



List of international airports applying Level 2 ATFM Node in Viet Nam

2.9 From 03/2020, CAAV has decided 6 airports in Viet Nam applying Level 2 ATFM Node, including: Noi Bai, Da Nang, Tan Son Nhat (official) and Cat Bi, Cam Ranh, Phu Quoc (trial). List of airports applying Level 2 ATFM Node has been announced in AIP Viet Nam

2.10 From 2020 to the end of 2022, the implementation of Level 2 ATFM Node at the above airports was interrupted due to the impact of Covid-19. The implementation of Level 2 ATFM Node has been restarted from the end of 2022, when the flight operations have gradually recovered, especially at airports that are in trial progress of Level 2 ATFM Node, except for Cat Bi International Airport.

2.11 Based on results of post-operation analysis and the actual situation of flight operations, CAAV has decided to switch from trial to official operations of Level 2 ATFM Node at Cam Ranh and Phu Quoc international airports. Only Cat Bi international airport continues to extend the trial period of Level 2 ATFM node until December 2023.

Cooperation with international organizations to upgrade participation level in ATFM node

2.12 Viet Nam (VATM) and Thailand (AEROTHAI) have agreed to cooperate and support for upgrading participation Level in ATFM node for Viet Nam’s main airports. It is expected to be conducted at the same time in 2023 to prepare and meet the requirements of current and future growth in flight operations in Viet Nam.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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