



ICAO

*International Civil Aviation Organization***The Sixth Meeting of System Wide Information Management Task Force (SWIM TF/6)**

Video Teleconference (VTC), 17 – 20 May 2022

Agenda Item 4: Updates on the assigned tasks by task leads/contributors including progress report and issues

a) Implementation Planning

- Task 1: Regional Implementation Philosophy & Roadmap

THE ASIA-PACIFIC SWIM IMPLEMENTATION TIMELINE

(Presented by China, Japan, Singapore, and Thailand)

SUMMARY

This paper presents a proposal for a target timeframe for SWIM implementation in the Asia-Pacific Region.

1. INTRODUCTION

1.1 The 20th Meeting of the Communications, Navigation and Surveillance Sub-Group of APANPIRG (CNS SG/20) was held in Bangkok, Thailand, from 11 to 15 July 2016. At CNS SG/20, through **Decision CNS SG/20 – D3: Establishment of SWIM Task Force**, SWIM Task Force (SWIM TF) was established. Since its first meeting held in 2017, a significant amount of work in various forms, e.g., papers, trials, prototypes, etc., have been developed and produced by the SWIM TF.

1.2 It is thus considered time to consolidate all the work we have done and all the experiences as well as lessons we have learnt and start laying out a concrete plan towards an implementation of SWIM in our region. For this, the first thing we need to establish is a target timeframe for operational SWIM implementation within our region.

2. DISCUSSION

2.1 Over the last five years, the SWIM TF has been exploring the various aspects of SWIM implementation. The efforts of all the various task groups need to be acknowledged and consolidated to form an actionable implementation plan for SWIM in the Asia-Pacific region.

- 2.2 Integral the plan is a target timeline or timeframe for implementation. This is required so that the TF can accordingly plan targets for each implementation task to be completed and the corresponding order of task completion.
- 2.3 To this end, we propose to reference the timeframes of related events and publications to determine the implementation timeframe for the Asia-Pacific SWIM.
- 2.4 The first of these events identified is the publication of the ICAO PANS-Information Management (PANS-IM), which is expected to be published in 2024. The other is the sunset date of the current flight plan format (FPL2012) in 2032 which is under the consideration of ICAO ATM Requirements and Performance Panel (ATMRPP).
- 2.5 The publication of PANS-IM in 2024 reflects that the authoritative reference for SWIM implementation will be available in that year. This can be considered as the start point for the Asia-Pacific SWIM implementation.
- 2.6 The sunset date of the FPL2012 in 2032 being considered implies that FF-ICE (Flight and Flow Information for a Collaborative Environment) services, especially Filing Service, will need to be implemented globally. It is well known that FF-ICE requires SWIM to be in-place for its implementation and efficient operation. Therefore, 2032 would be the logical end point for SWIM implementation in our region.
- 2.7 With all the considerations aforementioned, we propose that the timeframe for SWIM implementation in the Asia-Pacific region be set at between 2024 and 2030. The timeframe stretched till 2032 is not proposed as it is considered that a buffer of 2 years to conduct FF-ICE related operational trials prior to the planned sunset date for the FPL2012 will be required before the rolling out of FF-ICE operations in our region.
- 2.8 It is expected that, during this timeframe, SWIM will need to interoperate with AMHS and States may need to maintain connections to both communication methods until the end of the timeframe.

Draft Conclusion SWIM TF/6/ XX		The Asia-Pacific SWIM Implementation Timeframe	
What:	To set the timeframe for the implementation of SWIM in the Asia-Pacific region to be between 2024 and 2030	Expected impact:	<input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why:	This is to set the concrete target implementation of the Asia-Pacific regional SWIM to assist States in harmonizing their implementation plans in order to achieve the seamless information exchange across the region in time for future operations, e.g. FF-ICE.	Follow-up:	<input checked="" type="checkbox"/> Required from States
When:	20-May-22	Status:	Draft to be adopted by PIRG
Who:	<input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: SWIM TF		

2.9 Other matter that may impact the SWIM implementation timeframe is the different schedules set out by the different ICAO Air Navigation Commission Technical Panels. Particularly, it is stated in ICAO Annex 3 Meteorological Service for International Air Navigation, 20th Edition, July 2018 that MET advisories and MET products shall be disseminated in IWXXM (ICAO Meteorological Information Exchange Model) from 5 November 2020. The ATMRPP has set the starting date of FF-ICE/R1 implementation to be in 2024. However, the ICAO Information Management Panel (IMP) aims to publish the PANS-IM only in 2024. Given that both IWXXM and FF-ICE should be ideally supported by SWIM, these timelines do not seem to support each other. Aligning all the timelines will definitely assist States in planning their investment and transition, especially during this low season of air transport where all aviation stakeholders have been greatly impacted by the spreading of COVID-19.

Draft Decision SWIM TF/6/XX Harmonization of Timelines for SWIM-related Initiatives	
What: To feedback to the ICAO Air Navigation Commission Technical Panels for a need to harmonize the implementation timelines of SWIM-related initiatives.	Expected impact: <input checked="" type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: There exists different timelines for the implementation of SWIM-related initiatives identified by various ICAO ANC Technical Panels. This creates confusion within States on their corresponding implementation sequences and as to how these different timelines are to be met.	Follow-up: <input type="checkbox"/> Required from States
When: 20-May-22	Status: Draft to be adopted by PIRG
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input checked="" type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX	

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) agree to Draft Conclusion proposed in Paragraph 2.8 and Draft Decision proposed in Paragraph in 2.9; and
- c) discuss any relevant matter as appropriate
