



ICAO

International Civil Aviation Organization

The Seventh Meeting of System Wide Information Management Task Force (SWIM TF/7)

Bangkok, Thailand, 09 – 12 May 2023

Agenda Item 3: Updates on the assigned tasks by task leads/contributors including progress report and issues

a) Implementation Planning

- Task 1: Regional Implementation Philosophy & Roadmap

SWIM Implementation Pioneer Group

(Presented by Task 1 - China, Japan, Singapore, and Thailand)

SUMMARY

This paper presents a proposal to establish a SWIM Implementation Pioneer Group under the SWIM TF to kick-start the Asia/Pacific regional SWIM implementation based on the SWIM architecture discussed at the SWIM TF/2 Meeting.

1. INTRODUCTION

1.1 The Thirty-Third Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/33), which was held on 22 – 24 November 2022, adopted, through Conclusion APANPIRG/33/9, the Asia/Pacific SWIM Implementation Timeframe to be between 2024 and 2030 with 2030 being the target timeline for implementation completion.

1.2 While developing the Asia/Pacific Regional SWIM Roadmap, Task 1 recognized that, besides the regional guidance material being developed by the SWIM TF, there is a need for other mechanism to help kick-start the SWIM implementation in the region.

2. DISCUSSION

2.1 Considering the progress made by some ANSPs within the Asia/Pacific region, Task 1 concluded that one possible approach to accelerate SWIM implementation in the Asia/Pacific region is to establish a SWIM Implementation Pioneer Group.

2.2 The role of the SWIM Implementation Pioneer Group is to start building the initial version (prototype) of the regional SWIM in accordance with the SWIM architecture previously discussed and agreed at the former SWIM TF meetings, using the Common aeRonautical Virtual Private Network (CRV) as the baseline IP infrastructure.

2.3 It is expected that members of this group will need to have the certain capabilities either already provisioned or soon to be provisioned. These capabilities are as follows:

- a) Connection to the CRV;
- b) Some form of Enterprise Messaging Service; and
- c) Some SWIM services.

In addition, it would be beneficial for some members to also provide a SWIM Registry for this regional SWIM prototype development.

2.4 This proposal also ties in with the goals and objectives of the Surveillance Sharing in SWIM Trial Implementation Group (S3TIG) whose objective is to find a way to share surveillance data on SWIM, presenting the need for the construction of some sort of SWIM prototype. As such, this group is also proposed to be working closely with S3TIG.

2.5 Members of the group may consist of ANS stakeholders, including ANSPs, MET service providers, interested international organizations, and commercial vendors.

2.6 The lessons learnt during the construction of this regional SWIM prototype can be used as an input for the development of the Asia/Pacific regional SWIM Guidance document. Importantly, the regional SWIM prototype once created can then serve as a seed for further SWIM development and better information exchange supporting regional operations. Eventually, this prototype can be extended and become the full-fledged Asia/Pacific SWIM with all the necessary features and governance applied to it.

2.7 Task 1 therefore proposes the formation of a SWIM Implementation Pioneer Group under the SWIM TF to establish a prototype SWIM for the Asia/Pacific region.

Decision SWIM/TF/XX/XX – Formation of the SWIM Implementation Pioneer Group	
What To establish a SWIM Implementation Pioneer Group to develop an initial version (prototype) of the Asia/Pacific regional SWIM.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To kick-start the SWIM implementation for the Asia/Pacific region in accordance with Conclusion APANPIRG/33/9 The Asia/Pacific SWIM Implementation Timeframe.	Follow-up: <input type="checkbox"/> Required from States
When: 12-May-23	Status: Draft to be adopted by PIRG
Who: <input type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input 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) discuss the proposal for the formation of the SWIM Implementation Pioneer Group and agree to Decision proposed in Paragraph 2.6; and
- c) discuss any relevant matter as appropriate
