

International Civil Aviation Organization

The Eighth Meeting of System Wide Information Management Task Force (SWIM TF/8)

Bangkok, Thailand, 08 – 10 November 2023

Agenda Item 3: Progress of SWIM Implementation Pioneer Ad-Hoc Group

SWIM Implementation plan in Japan

(Presented by JAPAN)

SUMMARY

This paper presents information about the implementation plan of SWIM (System Wide Information Management) in

1. INTRODUCTION

1.1 The implementation plan of SWIM in Japan is based on the discussions and decisions made by the "SWIM Introduction Study Group" established in 2018, and the "Collaborative Actions for Renovation of Air Traffic Systems" (CARATS) which is a study group consisting of representatives from industry, academia, and government, and aiming for the start of operation in the first quarter of 2025.

2. DISCUSSION

- 2.1 SWIM is an information sharing and management platform, enabling innovative and efficient air traffic management and operation. It ensures that aviation stakeholders have access to the necessary information in the required format.
- 2.2 Direction policy for SWIM
- 2.2.1 As part of an information sharing and management system, a new system called MASS(Messaging-system for ATM as SWIM Service) will be developed. This system is part of the Integrated Air Traffic Control Data Processing System, as shown in Figure 1.

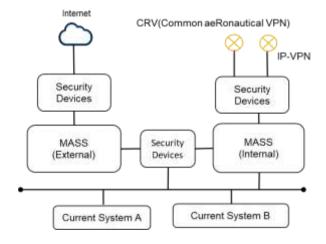


Figure 1

- 2.2.2 Information will be provided to SWIM service users via CRV, IP-VPN or the Internet.
- 2.2.3 Security devices are used as security measures for internet connection, network segmentation, and intrusion prevention.
- 2.2.4 For initial SWIM service provision, this system will be connected to the current system that centrally manages flight plan information, aeronautical information, weather information, etc.
- 2.3 Introduction of New Information Services

Japan Civil Aviation Bureau (JCAB) plans to provide new information services based on the SWIM concept, as shown in the Figure 2.

(B2B services)	
Type of Information	Service
Aeronautical Information	Digital NOTAM
	AIP Data
Terminal Information	ATIS Information
PILOT REPORT Information	PIREP
Weather Information	Weather Information
Flight Information	Flight Plan Filing
	ATS Information
Providing complex information	Package Request
Other Information	Message Webmail

(Services provided by only on the web browser)	
Type of Information	Service
Aeronautical Information	AIP file download
	AIP browsing
Providing complex information	Airport Profile
	Airspace Profile
Airport SLOT	Slot Request

Figure 2

- 2.4 Our steps to start SWIM
- 2.4.1 Currently, we are planning to initiate SWIM operations, as shown in Figure 3, and proceeding with consideration of governance with related parties including airlines etc. at the Preparatory Meeting for SWIM.

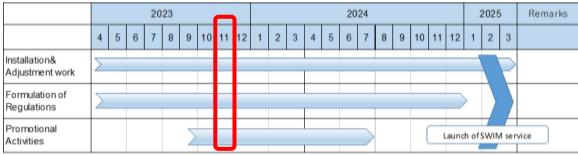


Figure 3

2.4.2 We will continue to take appropriate measures to respond to the increase in new SWIM users.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information contained in this paper.