International Civil Aviation Organization

The Tenth Meeting of System Wide Information Management Task Force (SWIM TF/10)

Bangkok, Thailand, 20 – 23 May 2025

Agenda Item 3:   Outcomes of relevant meetings on SWIM-related matters
o   SWIM Implementation Pioneer Ad-hoc Group

SIPG ACTION WS-1-12: CONCLUSIONS OF THE ASIA-PACIFIC SWIM TRANSITION DISCUSSIONS

(Presented by Singapore, Australia, Thailand on behalf of the SWIM Implementation Pioneer Ad-Hoc Group)

SUMMARY

This paper presents the deliberations of the SWIM Implementation Pioneer ad-hoc Group (SIPG) on the topic of SWIM transition in the Asia-Pacific region and the conclusions of the discussions.

1.   INTRODUCTION

1.1   The SWIM Implementation Pioneer ad-hoc Group (SIPG) organized the first face-to-face working session to deliberate on how SWIM in the Asia-Pacific (APAC) region could be implemented.

1.2   The working session was held at the ICAO Regional Office Headquarters in Bangkok, Thailand, from 14 – 17 January 2025.

1.3   The agenda for the working session is as follows:

Agenda Item 1:   Adoption of Agenda
Agenda Item 2:   SWIM-related Information Security – ICAO Doc 10204 Manual on Information Security
Agenda Item 3:   SWIM Architecture
Agenda Item 4:   SWIM Traffic in CRV
Agenda Item 5:   SWIM Transition
Agenda Item 6:   Next Meeting and Any Other Business

1.4   Under Agenda Item 5: SWIM Transition, the issue of SWIM in a mixed-mode environment was discussed at length, in particular, SWIM in mixed mode with AMHS and how long such an environment is likely to last.

2.   DISCUSSION

2.1   The SIPG discussed how AMHS would transit into SWIM in the Asia Pacific region, and it became clear that there was a certain amount of uncertainty, especially around the AMHS data types that do not have a clear mapping or representation to the existing SWIM data models.

2.2   Some AMHS data types like flight plans and NOTAMs have clear mappings to SWIM data models, i.e. FIXM and AIXM. Other AMHS data types have no clear mapping but there are existing ICAO groups that are studying the issue. However, there was at least 1 AMHS data type that does not have a SWIM mapping nor seem to have any ICAO working group studying its migration into SWIM.

2.3   There is also a matter of migration and sunset dates for the AMHS data types. Currently only the flight plan 2012 data type has an assigned sunset date. Some others have migration dates set but no sunset dates. This makes planning for the Asia-Pacific SWIM transition difficult.

2.4   After much discussion, the SIPG has 4 recommendations for the SWIM Task Force.

2.4.1   Recommendation 1: For the SWIM Task Force to reach out to relevant expert groups that govern the various data types being transmitted on AMHS for their SWIM migration strategy and proposed sunset date. (E.g. AAITF, FF-ICE ad-hoc group, MET/IE, ATFM ad-hoc group, etc)

2.4.2   Recommendation 2: For SWIM Task Force to work closely with the ACSICG AMHS to SWIM Transition Group to map out a transition plan together. One topic of interest is the need for AMHS to SWIM conversion and how that should be managed.

2.4.3   Recommendation 3: For the SWIM Task Force to consider the use of legacy formats in the Asia-Pacific SWIM. This is to enable existing data to quickly be onboarded onto SWIM. The ATM Information Reference Model should be used to maintain semantic interoperability.

2.4.4   Recommendation 4: To inform the ATM Automation Systems Task Force (ATMAS TF) of the need for ATM automation systems to be SWIM compatible.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

a)   note the information contained in this paper; and

b)   Adopt the 4 recommendations as conclusions of the SWIM TF.

c)   discuss any relevant matter as appropriate

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