



ICAO

*International Civil Aviation Organization*

**Twenty Fifth Meeting of the Communications/  
Navigation and Surveillance Sub-group (CNS SG/25) of  
APANPIRG**

Video Tele-Conference, 18 October – 22 October 2021

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**FLIMSY - 02**

**Agenda Item:** 3 – 3.4

**Working Paper:** CNS SG/25 – WP/07

**REVIEW REPORT OF THE FIFTH MEETING OF SYSTEM WIDE  
INFORMATION MANAGEMENT TASK FORCE (SWIM TF/5)**

(Presented by Australia)

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**1. INTRODUCTION**

- 1.1 Draft Decision CNS SG/25xx (para 2.26) proposes the adoption of a revised terms of reference for the System Wide Information Management Task Force (SWIM TF).
- 1.2 This paper proposes a refinement of the text.
- 1.3 The changes proposed are shown in Appendix A with as new text underlined and deleted text marked with a ~~double-strikethrough~~.

**2. DISCUSSION**

Change Reference	Change	Rationale
c)	Delete 'Define' and replace by 'Propose'  Delete 'over CRV'.	'Define' is a level of decision above the scope of the TF. Change to 'Propose' to indicated decision will be taken at a level of APANPIRG that allows States to express opinion.  Does not constrain the TF to only considering architecture that uses the CRV.

f)	Delete 'Establish' and replace by 'Propose'.	Governance model should be established at a level of APANPIRG that allows States to express opinion.
i)	Delete item.  Consequential renumbering of following items.	The development and operation of a validation platform is out of scope for the TF. The task force could promote interested States to develop such a platform on behalf of the Region.
m)	Delete Item.	The implementation of the regional SWIM will be by collaboration between States. The TF does not have the standing to implement the regional SWIM.
n)	Delete 'any' and insert 'as approved'	The TF can identify and propose additional task to the CNS SG for approval. Approval by the CNS SG maintains focus and allows approved work to be completed within the allocated time.

### 3. ACTION BY THE MEETING

3.1 The meeting is invited to consider the change proposed in this flimsy in addition to changes proposed in the referenced working paper.

## Appendix A

### TERMS OF REFERENCE

#### SWIM Task Force

Objectives: In order to achieve ~~B1-SWIM~~ the SWIM thread as specified in the Aviation System Block Upgrade (ASBU) of the Global Air Navigation Plan (GANP) and, the Asia/Pacific Seamless ATM ANS Plan objectives, and the ATM and AIM air navigation systems –that are in compliance with ICAO global standards for the conceptualisation and exchange of aeronautical, flight and meteorological information - ~~should be implemented in the high density FIRs and high density international aerodromes by November 2022 (PASL Phase III) and in all FIRs and international aerodromes by November 2025 (PASL Phase IV).~~ To that end, the SWIM Task Force will:

- a) Benchmark the various successful implementations of SWIM in States and regions to adopt ~~promote~~ best practices;
- b) Develop and maintain a ~~the Asia/Pacific regional roadmap for SWIM services (ATM, AIM, MET, other), dependencies and enablers implementation, including SWIM technical infrastructure, SWIM governance, SWIM information services;~~
- c) ~~Liaise with relevant regional contributory bodies to refine operational and communications requirements (example: ATFM/SG, AAITF, MET IE/WG, ACSICG, CRV/OG, etc.)~~ ~~Define~~ Propose a high-level Asia/Pacific regional SWIM architecture, the corresponding SWIM technical infrastructure requirements, and the implementation approach to construct such architecture ~~over CRV~~ to ensure interoperability among regional SWIM participants and to support transition for non-SWIM capable entities;
- d) ~~Complement global SWIM governance with regional procedures as needed and define how it can be implemented in APAC, with a particular focus on version management of concept and exchange models, architecture models, cyber security, data quality management and maintenance of a trusted environment~~ Develop the Asia/Pacific regional SWIM cyber security architecture framework and SWIM security strategy in line with ICAO International Aviation Trust Framework (IATF);
- e) ~~Provide guidance and training to APAC member States and APANPIRG contributory bodies involved in SWIM related work~~ Support APANPIRG WGs/TFs regarding information exchange models and examine if any extension to the existing information exchange models, i.e. AIXM, FIXM, and IWXXM, and/or the new information exchange model(s) are required to support the Asia/Pacific regional operational requirements;
- f) ~~Develop guidance/requirements for publishers/service providers and subscribers/service consumers~~ ~~Establish~~ Propose a robust and sustainable governance model to ensure that a common set of policies, rules, and standards for identifying, designing, implementing, discovering, and operating SWIM-enabling components, including SWIM registries, is consistently applied and enforced throughout the Asia/Pacific region;
- g) ~~Promote enablement of ATM services as SWIM Application Services (SAS)~~ Develop and define the Asia/Pacific version of the SWIM information service

overview specifications and the Asia/Pacific version of data catalogue for information services based on the regional operational needs;

- h) ~~Define how SWIM Registry/Registries and services will be implemented in the APAC region and what the minimum level of information a service needs to provide to the Registry/Registries~~ Track and observe SWIM demonstrations and trials within the Asia/Pacific region as well as provide, if required, support for regional SWIM demonstrations;
- i) ~~Support APANPIRG WG/TF regarding data exchange models of AIXM, FIXM, and IWXXM and examine if any extension is required for the operational use in APAC~~ Construct a platform for SWIM services and applications validation and support the implementation of SWIM services and applications;
- i) Monitor developments by the IMP and escalate the regional issues as required;
- j) ~~Implement the APAC Regional SWIM~~ Identify, communicate, and liaise with relevant APANPIRG WGs/TFs in regard to SWIM-related activities, including providing support to refine SWIM operational and communications requirements; ~~and~~
- k) ~~Undertake any other tasks related to SWIM implementation that may arise in the future~~ Develop an educational and promotional materials required to support the regional SWIM implementation to ensure cohesiveness among regional SWIM participants;
- l) ~~Implement the Asia/Pacific regional SWIM; and~~
- m) Undertake ~~any~~ other tasks as approved related to SWIM implementation that may arise in the future.

~~Considering the cross-disciplinary nature of SWIM, the Task Force will ensure proper coordination with relevant regional contributory bodies under APANPIRG.~~

Composition:

The SWIM TF will consist of experts from ATM, AIM, MET, and CNS from Asia/Pacific States (ANS Providers); and international organizations such as ~~from~~ IATA and ICCAIA.

Conduct of the work:

The task force will conduct its work through ~~Web-Conferences~~ web conferences, teleconferences, other electronic means of communications, and Face-to-Face meetings.

Reporting:

The group will report to CNS SG.

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