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*International Civil Aviation Organization***Ninth Meeting of the Aerodromes Operations and Planning Sub-Group (AOP/SG/9)***Bangkok, Thailand, 30 June to 4 July 2025***Agenda Item 2: Review Outcome of Relevant Meetings****SUMMARY OF OUTCOMES OF ATM/SG/12 AND RELATED MEETINGS**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the outcomes of ATM/SG/12 and related meetings, including AAITF/20, which addressed matters of relevance to the AOP/SG. Notably, discussions on AIXM benefited from the participation of Subject Matter Experts from the AOP/SG in the APAC Common SWIM Aeronautical Information Services Ad Hoc Group. These efforts represent an important initial step toward the development of a future SWIM environment and underscore the need for continued close coordination with the AOP/SG to support regional harmonisation and progress.

**1. INTRODUCTION**

1.1 The Twelfth Meeting of the Air Traffic Management Sub-Group of APANPIRG (ATM/SG/12) was held from 23 to 27 September 2024.

1.2 The Twentieth Meeting of the ICAO Aeronautical Information Services (AIS) – Aeronautical Information Management (AIM) Implementation Task Force (AAITF/20) was held from 9 to 13 June 2025 in Chitose, Japan.

1.3 ATMSG/12 and AAITF/20 addressed several topics relevant to the AOP/SG. Notably, discussions on AIXM were facilitated through the participation of Subject Matter Experts (SMEs) from the AOP/SG in the APAC Common SWIM Aeronautical Information Ad Hoc Group. While these efforts represent an initial step toward a future SWIM environment, continued close coordination with the AOP/SG will be essential going forward.

**2. DISCUSSION****Proposed Business Functionality of APAC Common SWIM Information Services**

2.1 The ATM/SG/12 was updated by the ICAO APAC SWIM TF on Information Services regarding ongoing work to identify business functions supported by APAC Common SWIM Information Services to meet regional operational needs. Recognizing the need for further discussion on the initial list of recommended services, the ATM/SG/12 agreed to establish an ad hoc group to address both technical and operational aspects.

2.2 The ATM/SG/12 agreed to the following Decision:

***Decision AAITF/19-3: Establish APAC Common SWIM Aeronautical Information Services Ad hoc Group***

2.3 Following its establishment, the APAC Common SWIM Aeronautical Information Services Ad hoc Group convened five meetings to review and discuss the message sets proposed by the System Wide Information Management Task Force (SWIM/TF). The group agreed to adopt AIXM 5.1.1 as the common version for the region and supported the use of both Publish/Subscribe and Request/Reply message exchange patterns for most services. Discussions addressed airspace, aerodrome, digital NOTAM, ATIS, and SAR information.

2.4 The Ad Hoc Group proposed to SWIM/TF the following changes as highlighted in yellow in **Figure 1**, covering six of the message sets, excluding SAR service.

Business functionality of the service	Brief description of the service	Type of information to be exchanged	Information exchange model / Message type	Message exchange pattern	Recommended service in initial APAC Common SWIM IS (1) / (2) / (3)
APAC Common SWIM Aeronautical Information Services					
Airspace management service	Exchanges of airspace status information between ASM Support System and Air Traffic Control (ATC) System. The sharing of airspace availability and airspace structure in real-time will contribute to a more efficient execution of the flight as information impacting the trajectory will be exchanged.	Airspace availability, Availability, or activation/deactivation or temporarily change of airspace, restricted area, danger area, search and rescue regions	AIXM	Pub/Sub or Req/Reply	2
Airspace feature service	Provides the characteristics of the three-dimensional airspace, described as horizontal projection with vertical limits, and their relevance to air traffic.	FIR/UIR boundaries, waypoints, enroute ATS routes, SIDs and STARs, nav aids, procedures, and other airspace not limited to restricted area, prohibited area, danger area, search and rescue regions (Remarks - Other data published in the AIP may be included)	AIXM	Pub/Sub or Req Reply	2
Aerodrome feature service	Provides current and/or planned airport layout features, such as aerodrome mapping data, runway, taxiway, passenger facilities.	Runways, movement areas, aerodrome services, nav aids, instrument landing systems, Aerodrome location, communication facilities (frequencies)	AIXM	Pub/Sub or Req/Reply	2
Runway Condition Report service	Provides runway surface conditions and contaminants (least to most slippery) that are directly correlated to aircraft take-off and landing performance.	Global Reporting Format (GRF) for runway surface conditions	AIXM	Pub/Sub or Req/Reply	2
Digital NOTAM distribution service	Provides aeronautical information in accordance with the Digital NOTAM Specification, such as runway closure.	Digital NOTAM (e.g. Special activity airspace (SAA) NOTAMs, or other types of NOTAMs)	AIXM	Pub/Sub or Req/Reply	2
ATIS distribution service	Provides continuous and automated broadcast of recorded aeronautical information in airport and terminal areas.	Current weather conditions, runway in use, available approaches, and other data relevant to arriving and departing aircraft, specific ATC procedures, and any airport construction activity that could affect taxi planning	TBD	Pub/Sub	2 3

**Figure 1:** Proposed Initial Set of APAC Common SWIM Aeronautical Information Services

2.5 **Figure 2** provides the SAR service message set defined under APAC Common SWIM Aeronautical Information Services, as proposed by SWIM/TF.

Business functionality of the service	Brief description of the service	Type of information to be exchanged	Information exchange model / Message type	Message exchange pattern	Recommended service in initial APAC Common SWIM IS (1) / (2) / (3)
APAC Common SWIM Aeronautical Information Services					
Search and rescue service	Allows Rescue Coordination Centres (RCCs) to exchange information with neighbouring RCCs and ATS units for coordination during SAR operations.	Search and rescue regions, Registered aircraft operator details and contacts, ICAO Autonomous Distress Tracking (ADT) data, Location of Aircraft in Distress Repository (LADR) data, ICAO OPS CTRL database contact information, SAR Unit (SRU) location and capability data	TBD	Pub/Sub	3

**Figure 2:** SAR Service Message Set

2.6 The Ad hoc Group discussed and concluded that the implementation of SAR service should be considered in the future phase, as the information exchange model and message types had yet to be defined, currently marked as “TBD”.

2.7 In view of the meeting schedules, the initial set of outcomes developed by the APAC Common SWIM Aeronautical Information Services Ad hoc Group was submitted in advance to the Tenth Meeting of the System Wide Information Management Task Force (SWIM TF/10, Bangkok, Thailand, 20 – 23 May 2025), as a working paper, in order to ensure timely input and alignment with their ongoing work.

2.8 The meeting agreed to the proposed Terms of Reference (TOR), and supported the continued activities of the Ad Hoc Group. (**Attachment A**)

2.9 AAITF/20 expressed its appreciation for the contribution of SMEs from the AOP/SG and encouraged continued cooperation toward the development of a SWIM-compliant environment.

Enhanced Global Reporting Format (GRF) for Assessing and Reporting Runway Surface Conditions

2.10 As AOP/SG/8 pointed out, although 15 States had informed ICAO APAC of their implementation of the Global Reporting Format (GRF) in 2021, as of 22 March 2024, only 14 States had published the procedures for the assessment and reporting of runway surface conditions in their AIP.

2.11 In accordance with Annex 15, Section 6.3.1.2, any permanent changes to the AIP were required to be published through AIP Amendments. Therefore, the procedures for assessing and reporting runway surface conditions and the issuance of SNOWTAM should be published in the national AIP, preferably under Section AD 1.2.2 – Snow Plan. States that had published this information in other AIP sections were invited to consider relocating it to AD 1.2.2 for alignment with ICAO provisions.

Revised Guidance on the Issuance of SNOWTAM

2.12 The meeting agreed to the following Conclusion:

***Conclusion ATM/SG/12-5: Revised Guidance on the Issuance of SNOWTAM***

*That, the revised EUR Doc 041 – Guidance on the Issuance of SNOWTAM (V.1.1) at ATM/SG/12 WP/29 Attachment E be uploaded on the ICAO Asia/Pacific Regional Office eDocuments webpage to replace the existing.*

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) recognise the need for continued close coordination with the APAC Common SWIM Aeronautical Information Services Ad hoc Group in support of future SWIM developments; and
- c) discuss any relevant matters as appropriate.

## **Terms of Reference of APAC Common SWIM Aeronautical Information Services Ad hoc Group**

The objectives of the Ad hoc Group are to:

- 1) review and discuss the proposed business functionality of the APAC Common SWIM Aeronautical Information Services;
- 2) facilitate regional harmonisation and standardisation of Aeronautical Information Services in a SWIM environment;
- 3) provide recommendations to relevant stakeholders for the effective implementation of SWIM-based Aeronautical Information Services.

### Deliverables to meet the Objectives:

- 1) Review and Discuss Business Functionality
  - Evaluate the proposed business functionality of the APAC Common SWIM Aeronautical Information Services as proposed by the SWIM Task Force (SWIM TF), including but not limited to:
    - Business functionality of the service;
    - Brief description of the service;
    - Type of information to be exchanged;
    - Information exchange model / Message type;
    - Message exchange pattern; and
    - Recommended service in the initial APAC Common SWIM Information Service (IS).
- 2) Coordinate and Collaborate
  - Engage and collaborate with:
    - APAC SWIM TF,
    - Air Traffic Management Sub-Group (ATM/SG) and its subsidiary groups, including APSAR/WG, and
    - Aerodrome Operations and Planning Sub-Group (AOP/SG).
  - Review the development of Aeronautical Information Exchange Model (AIXM) revisions.
  - Review the Information exchange model/Message type for ATIS distribution service and Search and rescue service.
  - Propose AIXM extensions for regional adoption when necessary.

3) Undertake Additional Tasks

- Address any other tasks related to the APAC Common SWIM Aeronautical Information Services implementation that may arise in the future.

Membership

The Ad hoc Group will comprise experts from:

- Civil Aviation Authorities (CAA),
- Air Navigation Service Providers (ANSP),
- Industry stakeholders, and
- Relevant international and regional organisations.

Reporting

The Ad hoc Group will report its progress, findings, and recommendations to the AAITF and APSAR/WG. Regular updates will also be provided to ATM/SG, AOP/SG, and APAC SWIM TF.

Working Arrangements

- The Ad hoc Group will convene meetings as required, primarily through virtual platforms.
- Coordination and collaboration will be facilitated through emails, teleconferences, and shared documentation platforms.
- Decisions will be made based on consensus among members.

Review of Terms of Reference

The Terms of Reference will be reviewed periodically by the AAITF and updated as necessary to reflect evolving requirements and developments in Aeronautical Information Services within the APAC region.

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