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Agenda Item 6b ATFM, A-CDM Systems Communication- AFTN/AMHS, FIXM, SWIM

GUIDANCE MATERIAL TO ASSIST APANPIRG SUBSIDIARY GROUPS IN REVIEWING AND UPDATING THE LIST OF APAC COMMON SWIM INFORMATION SERVICES

(Presented by SWIM TF)

SUMMARY

This paper requests APANPIRG Subsidiary Groups with subject matter expertise in relevant information domains to review and update/refine the details associated with APAC Common SWIM Information Services planned for future implementation in the region. Guidance material has been drafted by SWIM TF Task 6 experts to illustrate the level of detail that is requested.

1. INTRODUCTION

1.1 Decision 36/11 from APANPIRG/36 in November 2025 adopted the [First Version of the Business Functionality for APAC Common SWIM Information Services](#), and was published on the ICAO APAC eDocuments site. SWIM TF acknowledges and appreciates the efforts and inputs from the APANPIRG Subsidiary Groups in achieving this important first milestone in providing guidance for planning and implementing SWIM information services in the APAC Region.

1.2 At SWIM TF/10 in May 2025, it was noted that the level of detail differed across different information domains (e.g., aeronautical information, flight information, surveillance data, meteorological information, etc.), potentially caused by different levels of understanding as to what detail is needed by SWIM TF to facilitate the development of SWIM information services within the APAC Region.

1.3 This Working Paper requests APANPIRG Subsidiary Groups with relevant information domain knowledge to review and update/refine the business functionality for APAC Common SWIM Information Services to initiate the development of the Second Version of the APAC Common SWIM Information Services document, through the provision of Guidance Material.

1.4 The provision of the Guidance Material is also intended to serve as the foundation for APANPIRG Subsidiary Groups to regularly review the APAC Common SWIM Information Services document and provide updates to SWIM TF as necessary to maintain the currency of the list relevant to their respective information domain.

2. DISCUSSION

2.1 Guidance Material to assist APANPIRG Subsidiary Groups in reviewing and updating the list of APAC Common SWIM Information Services is provided in **Appendix A**. Specifically, it provides guidance on the type and level of detail requested for:

- a) Business functionality of the Information Service;
- b) Brief description of the service;
- c) Type of information to be exchanged;
- d) Information exchange model / Message type;
- e) Message exchange pattern; and
- f) Priority.

2.2 The Guidance Material also provides a worked example reflecting updates that could be made to some entries based on the enclosed guidance. The worked example is indicative only and does not reflect the actual changes that may be proposed for those Information Services by the relevant information domain experts.

2.3 Subsidiary Groups are also invited to review whether the existing description of business functionality of information service per row of the list covers more than one business function and consider the need to break down the existing ones further into multiple specific information services at a higher level of detail as appropriate with more focused description. Each entry of the information service should be at a sufficient level of detail to facilitate the implementation of a single common SWIM information service per description.

2.4 A new working version (draft Second Version) of the Business Functionality for APAC Common SWIM Information Services was provided. APANPIRG Subsidiary groups are requested to use the provided Guidance Material and use “track changes” in this document to submit any proposed updates to SWIM TF. The proposed updates submitted by the groups will be collated into a WP for submitting the draft Second Version to the SWIM TF/11 scheduled for 26-29 May 2026.

2.5 SWIM TF welcomes suggested improvements to the usability/clarity/structure of the information in the list of APAC Common SWIM Information Services. Two potential changes have already been identified by SWIM TF for consideration for future updates:

- a) Introduction of “applicability” (e.g., “region-wide” in order to achieve the anticipated benefits, vs. “as needed” to meet local needs); and
- b) Addition of desired implementation timeframe (e.g., immediate (before 2030), medium-term (2030-2035), and long-term (beyond 2035)).

2.6 SWIM TF also recommends APANPIRG Subsidiary Groups regularly review the APAC Common SWIM Information Services document each time they meet and submit updates to SWIM TF as necessary to maintain the currency of the list relevant to their respective information domain.

2.7 It was also agreed that this guidance material will be submitted to all relevant groups under APANPIRG to get feedback on the document and share information about the expectations from the list of APAC common SWIM information services.

2.8 This paper was presented to the Fourth Asia/Pacific FF-ICE Ad-Hoc Group Meeting and Workshop, held from 16 to 18 March 2026. The Ad-hoc Group reviewed the Business Functionality of APAC Common SWIM Information Services, Version 1.0, and agreed on the following recommendations for consideration by the ICAO APAC SWIM Task Force (SWIM TF).

1. Recognizing the limited technical expertise within domain-specific groups such as the FF-ICE Ad-Hoc Group, it was agreed that the group should **focus on defining business**

rules and business process completion criteria for information services. The determination of appropriate Message Exchange Patterns (MEPs) for each business process should be undertaken by SWIM TF, which possesses the relevant technical expertise.

- To support the determination of MEPs, it was agreed that **comprehensive operational scenarios**, including operational requirements and business process completion criteria, are essential. Accordingly, such scenarios, where required, should be provided as an appendix to the Business Functionality of APAC Common SWIM Information Services document. A reference to the appendix should also be included in the ‘Brief description of the service’ column. Figure 1 illustrates an example of how these comprehensive scenarios may be incorporated:

Business functionality of the information service	Brief description of the service	Type of information to be exchanged	Information exchange model / Message type	Message exchange pattern	Priority of Recommended Service in Initial APAC Common SWIM-IS (1) / (2) / (3)
FF-ICE filing service	Provides a means to submit, update or cancel flight plans through a SWIM-based interface using FIXM. Appendix A: Filing Scenario	Flight plan for registration, update or cancellation	FIXM	Appendix A	1

SWIM TF to fill in

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Appendix A: Filing Scenario

	Message	Details	Timeout	Comments	Message Exchange Pattern
1	eAU send eFPL (FFP) to eASP	Mandatory	N/A	-	
2	eASP returns Submission Response (SR) #1 to eAU	Mandatory (after eFPL received)	1 minute	eASPs validate message format and basic rules. SR ACK: Validation passed SR REJ: Validation failed SR MAN: Manual Processing needed	
3	eASP returns Submission Response (SR) #2 to eAU	Conditional (only if SR#1 = MAN)	Variable (manual processing time)	Any subsequent SR is provided after manual intervention of eFPL (after SR MAN)	
4	eASP returns Filing Status (FS) #1 to eAU	Mandatory (if final SR = ACK)	1 minute after SR “ACK”	eASPs evaluate flight plan against operational constraints and ATM configuration	
5	eASP returns Filing Status (FS) #2 to eAU	Conditional (if FS #1 = PENDING, or due to re-evaluation)	Variable (2 nd evaluation)	eASP sends updated FS when flight is ready to be evaluated (for PENDING) or when operational changes affect flight status	

Figure 1: An example of how the comprehensive scenarios may be incorporated in the Business Functionality of APAC Common SWIM Information Services.

2.9 This paper was presented to the Fifth Meeting of the Surveillance Study Group (**SURSG/5**) held from 23 – 24 March 2026 and the Eleventh Meeting of the Surveillance Implementation Coordination Group (**SURICG/11**) from 25 – 27 March 2026 held at the ICAO APAC Regional Office, Bangkok, Thailand. The Meeting reviewed the guidance material, and no changes were proposed.

2.10 For the request to consider the review of the APAC Common SWIM Information Services document as a standing meeting agenda item for future meetings and subsequent update to SWIM TF, as both SWIM and the associated required Information Services continue to evolve regionally and globally, the Meeting agreed that after SURSG is dissolved by the SURICG/11 Meeting, the list of APAC Common SWIM Surveillance Information Services document will be part of the agenda items of SURICG and the list will be updated by the SURICG meeting in the future.

2.11 The SURSG/5 and SURICG/11 Meetings deliberated in length on the initial set of APAC Common SWIM Surveillance Information Services and provided input and comments. The revised

APAC Common SWIM Surveillance Information Services agreed by both meetings is provided in **Appendix B** using “Track Changes”.

2.12 The SURSG/5 and SURICG/11 Meetings recommended that Guidance Material for the sharing of surveillance data in SWIM should be added as a reference document for APAC Common SWIM Surveillance Information Services to support service implementers. As Task 6 of SWIM TF is working on adding relevant references to all services listed in APAC Common SWIM Information Services, it was suggested that this information be shared with Task 6 of SWIM TF. ICAO Secretariat will share this information with the Task 6 Task Leads.

2.13 The feedback submitted by FF-ICE/4, SURSG/5 and SURICG/11 will be reviewed by the SWIM TF/11 Meeting in May 2026.

2.14 ATFM SG/16 is invited to further update this version for ATFM/A-CDM/Flow-related SWIM Information Services.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review and update/refine the relevant entries of the APAC Common SWIM Information Services document (**Appendix B**) relevant to the information domain of the meeting for submission back to SWIM TF; and
- c) consider the review of the APAC Common SWIM Information Services document as a standing meeting agenda item for future meetings and subsequent update to SWIM TF, as both SWIM and the associated required Information Services continue to evolve regionally and globally.
