

International Civil Aviation Organization

ICAO

WORKING PAPER (WP/20)

**ASIA AND PACIFIC (APAC) TWENTY-FOURTH
MEETING OF THE METEOROLOGICAL
INFORMATION EXCHANGE WORKING
GROUP (MET/IE WG/24)**

Nadi, Fiji, 21 to 24 April 2026

Agenda Item 5: Meteorological Information Exchange in a SWIM Environment
UPDATE MET-SWIM DOCUMENTATION

(Presented by Australia)

SUMMARY

This paper provides updates on guidance documents to support the implementation of meteorological aspects of SWIM. This includes an updated MET-SWIM Roadmap, a new Guidelines for MET-SWIM Implementation and deprecation of the MET-SWIM Plan.

1. INTRODUCTION

1.1 The ICAO Meteorological Panel (METP) assigned the Working Group on Meteorological Information Exchange (WG-MIE) the task of developing provisions to enable the inclusion of aeronautical information in the future system-wide information management (SWIM) environment consistent with ICAO Doc 9750, *Global Air Navigation Plan* (GANP).

1.2 As such, Job Card METP.004, *Inclusion of aeronautical meteorological information in the SWIM-enabled environment and further development of the SWIM concept relating to meteorology*, outlines the work program elements (WPEs) required by the WG-MIE to facilitate the implementation of MET in SWIM.

1.3 The use of information services for MET information is now a Recommended Practice in ICAO Annex 3 – *Meteorological Service for International Air Navigation*, with the applicability of Amendment 81 on 28 November 2024 as follows:

2.2.10 Recommendation.— *Contracting States should ensure that the meteorological information supplied to the users listed in 2.1.2 is provided through information services.*

Note 1.— *In the context of system-wide information management (SWIM), information services address machine-to-machine interaction in a service-oriented architecture.*

Note 2.— *Procedures on information services are contained in the Procedures for Air Navigation Services — Information Management (PANS-IM, Doc 10199).*

Note 3.— *Guidance material on information services can be found in the Manual on System-wide Information Management Implementation (Doc 10203).*

1.4 Previously, the MET/IE WG has been made aware of the *Plan for Aeronautical Meteorological (MET) Information in System-Wide Information Management (SWIM) (MET-SWIM Plan)* and *Roadmap for Aeronautical Meteorological (MET) Information in System-Wide Information Management (SWIM) (MET-SWIM Roadmap)*.

1.5 This paper describes updates related to MET-SWIM guidance and these documents.

2. DISCUSSION

2.1 In order to assist ICAO Member States and MET service providers with implementing MET information services, the WG-MIE formulated the following Decisions at its Eleventh Meeting (MIE/11), 4-7 December 2023 in Tokyo:

Decision MIE/11-08: Development of *Guidelines for MET-SWIM Implementation Document*

That, the WG-MIE should develop a new document, *Guidelines for MET-SWIM Implementation* to assist information service providers and consumers in implementing MET-specific information services.

Decision MIE/11-02: Deprecation of MET-SWIM Plan

That, the *Plan for Meteorology in SWIM (MET-SWIM Plan)* should be deprecated and the contents of the current version (Version 2.3) should be brought into the new *Guidelines for MET-SWIM Implementation* document.

2.2 The WG-MIE has progressed work on the new *Guidelines for MET-SWIM Implementation* and an update to the MET-SWIM Roadmap.

Guidelines for MET-SWIM Implementation

2.3 The WG-MIE has developed version 1 of the *Guidelines for MET-SWIM Implementation (MET-SWIM Guidelines)*.

2.4 The purpose of this document is to assist information service providers and consumers with implementing SWIM-enabled, MET-specific information services. The MET-SWIM Guidelines is intended to align with Doc 10203 to provide similar guidance specific to the MET domain. It also supplements the information in the MET-SWIM Roadmap and *Guidelines for the Implementation of OPMET Data Exchange Using IWXXM*.

2.5 The Sixth Meeting of the METP (METP/6) in March 2025 agreed to endorse the new MET-SWIM Guidelines document as an informal guidance document but without an ICAO document number at this stage, noting that future iterations of the document may require its elevation to a formal ICAO document, and formulated the following decision accordingly:

Decision 5/8 — Guidelines for MET-SWIM Implementation

That, the Panel,

a) endorse the *Guidelines for MET-SWIM Implementation*; and

b) request the Secretariat to promote its online publication and notify the PIRGs of its availability.

2.6 The First Edition of the *Guidelines for MET-SWIM Implementation* is available at [ICAO APAC e-doc portal](#) -> MET.

MET-SWIM Roadmap

2.7 Version 2.3 of the MET-SWIM Roadmap was finalized and published following the Fifth Meeting of the METP (METP/5) in 2021. Since this time, the development of MET information services has greatly progressed, requiring a substantial update to the MET-SWIM Roadmap.

2.8 As such, the WG-MIE prepared Version 3 of the MET-SWIM Roadmap to reflect the latest advancements and the updated predictions for the future environment. The key changes in version 3 of the MET-SWIM Roadmap include:

- Alignment of Figures 1-4 with updated expected capabilities within each Global Air Navigation Plan (GANP) Aviation System Block Upgrade (ASBU)
 - Block 1 (2019-2024): Exchange of TAC and IWXXM formats over the Aeronautical Fixed System (AFS)
 - Block 2 (2025-2030): Implementation of information services as Recommended Practice
 - Block 3 (2031-2036): Cessation of international TAC exchange
 - Block 4 (2036+): Information services as the primary exchange mechanism for MET information
 - Updated roadmap for modernization of MET exchange (Table 1): SWIM-enabled capabilities optional in Block 2, expected in Block 3
- Updated plan for removal of TAC as a Standard format: Expected to be included in Amendment 83 to ICAO Annex 3 with embedded applicability of November 2030
- Updated guidance on issuing single location messages instead of bulletins
- General editorial revisions.

2.9 The METP/6 endorsed through the following decision:

Decision 5/6 — MET-SWIM Roadmap

That, the Panel

- a) endorse Version 3 of the MET-SWIM Roadmap; and
- b) request the Secretariat to promote its online publication and notify the PIRGs of its availability.

2.10 Version 3 of the MET-SWIM Roadmap is available at [ICAO APAC e-doc portal](#) -> MET.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
 - b) discuss any suggested updates to these documents.
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