



ICAO

International Civil Aviation Organization

**THE ELEVENTH MEETING OF SYSTEM WIDE
INFORMATION MANAGEMENT TASK FORCE
(SWIM TF/11)**

Bangkok, Thailand, 25 – 29 May 2026

Agenda Item 3: Outcomes of relevant meetings on SWIM-related matters

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 meteorological 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 global documentation 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 two 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 This paper provides an update on the new *Guidelines for MET-SWIM Implementation* and MET-SWIM Roadmap since WG-MIE/11. Note: these are global, rather than regional, guidance documents.

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* (IWXXM Guidelines).

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.

2.7

MET-SWIM Roadmap

2.8 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.

2.9 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: Proposed to be included in Amendment 83 to ICAO Annex 3 (expected applicability of November 2027) with embedded applicability of November 2030
- Updated guidance on issuing single location messages instead of bulletins
- General editorial revisions.

2.10 The METP/6 subsequently agreed to the proposed Version 3 of the MET-SWIM Roadmap and formulated the following decision accordingly:

Decision 5/6 — MET-SWIM Roadmap

That, the Panel

- a) endorse Version 3 of the MET-SWIM Roadmap, as given in the Appendix 5-8 to the report; and
- b) request the Secretariat to promote its online publication and notify the PIRGs of its availability.

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

IWXXM Guidelines

2.12 The METP WG-MIE also maintains the *Guidelines for the Implementation of OPMET Data Exchange Using IWXXM* (IWXXM Guidelines) which provides guidance on the exchange of IWXXM over the AFS. The current version of this document includes a range of information on the creation and validation of IWXXM data.

2.13 Given some of this content is not limited to the exchange over the AFS, and is highly relevant to SWIM information services, it is expected that some of this content will be moved into a general IWXXM implementation document, resulting in 3 related guidance documents each covering:

- IWXXM implementation
- IWXXM exchange over the AFS
- MET-SWIM Implementation.

2.14 The current version (v5) of the IWXXM Guidelines is also available via [ICAO APAC e-doc portal](#) -> MET.

General

2.15 The METP WG-MIE is preparing further updates to the MET-SWIM Guidelines and MET-SWIM Roadmap and welcomes suggestions for additional content or changes to the content. New editions of MET-SWIM Guidelines and IWXXM Guidelines are expected this calendar year.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) recommend any suggested changes to these MET-SWIM and IWXXM guidance documents; and
- c) discuss any relevant matter as appropriate.
