

*International Civil Aviation Organization*

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## WORKING PAPER (WP/23)

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 6: Meteorological Information Exchange in IWXXM Form****LATEST STATUS OF IWXXM**

(Presented by Hong Kong, China)

**SUMMARY**

This paper highlights the latest status of the ICAO Meteorological Information Exchange Model (IWXXM) and related decision of ICAO METP WG-MIE regarding the versions of IWXXM to be used for operational exchange to ensure interoperability among producers and consumers.

**1. INTRODUCTION**

1.1 The WMO Task Team on Aviation Data (TT-AvData) had published a new version of IWXXM in November 2025 – IWXXM 2025-2 – to meet the changes involved in Amendment 82 to ICAO Annex 3 and PANS-MET (Doc. 10157).

1.2 Regarding the versions of IWXXM to be used for operational exchange, a discussion had been made at the 13<sup>th</sup> meeting of the ICAO Meteorological Panel (METP) Working Group on Meteorological Information Exchange (WG-MIE).

**2. DISCUSSION**IWXXM 2025-2

2.1 The following is a recap of the major changes involved in IWXXM 2025-2 with respect to IWXXM 2023-1:

- First introduction of the Quantitative Volcanic Ash Concentration Information (QVACI) package
- First introduction of the Volcano Observatory Notice for Aviation (VONA) package
- Changes to the METAR/SPECI, Volcanic Ash Advisory, and Space Weather Advisory packages in accordance with the changes of their respective TAC templates
- Changes to the METAR/SPECI package to allow the provision of unlimited RVR, and temperature reports in tenths of a degree, in contrast to TAC

- Changes to the Meteorological Feature Package, and the WAFS Significant Weather Forecast package which has been based on it, to prepare for use by packages to be developed in future
- Updates to documentation in IWXXM and all its packages to reflect the introduction of PANS-MET and the discontinuation of the WMO Technical Regulations (WMO-No. 49), Volume II, Meteorological Service for International Air Navigation

2.2 Details regarding IWXXM 2025-2, including the schemas, examples, UML model, and release notes, are available at <https://schemas.wmo.int/iwxxm/2025-2/>.

Versions of IWXXM for operational exchange

2.3 While it is a known fact that upgrading systems to use the latest version of IWXXM needs resources and hence requires thorough planning and preparation, delayed implementation of IWXXM may not only make the produced IWXXM messages non-compliant with the requirements in currently applicable ICAO Annex 3 and PANS-MET, downstream consumers will also need to be able to consume multiple (latest and previous) versions of IWXXM messages, thus increasing their operational complexity and cost.

2.4 ICAO METP WG-MIE in its 13<sup>th</sup> meeting had discussed the issue and arrived at the following decision:

**Decision MIE/13-03: Managing IWXXM Version**

That,

- following the official release of version 2025-2 in November 2025, only versions 2023-1 and later should be exchanged operationally, and
- future IWXXM versions should be managed as independent packages.

2.5 Table 1 shows the latest IWXXM compatibility table taking into account the decision made by WG-MIE.

Table 1: Compatibility table showing IWXXM versions, associated report packages, and relevant ICAO Annex 3 requirements

IWXXM Version	METAR/SPECI	TAF	SIGMET	AIRMET	TCA	VAA	SWA	WAFS SIGWX F/C	VONA	QVACI	Requirements
<del>1.1</del>	1.1.0	1.1.0	1.1.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Am76
<del>2.1</del>	2.1.1	2.1.1	2.1.1	2.1.1	2.1.1	2.1.1	N/A	N/A	N/A	N/A	Am77
<del>3.0</del>	3.0.0	3.0.0	3.0.0	3.0.0	3.0.0	3.0.0	3.0.0	N/A	N/A	N/A	Am78
<del>2021-2</del>	3.1.0	3.0.1	4.0.0	3.1.0	3.1.0	3.1.0	3.0.1	1.0.0	N/A	N/A	Am79+ Am80
<del>2023-1</del>	3.1.0	3.0.1	4.0.1	3.1.1	3.1.0	3.1.0	3.0.1	1.1.0	N/A	N/A	Am79 + Am80
<del>2025-2</del>	3.2.0	3.0.2	4.0.2	3.1.2	3.1.1	3.2.0	3.1.0	1.2.0	1.0.0	1.0.0	Am82 / PANS-MET

2.6 WG-MIE will develop a plan for communicating operational deprecation of older IWXXM versions, and approaches to globally coordinating the implementation of new IWXXM schema versions, with emphasis on lifecycle planning (including retirement of versions), stakeholder readiness, and alignment of regional deployment timelines.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited participants to:

- a) note the information in this paper;
- b) discuss any relevant matter as appropriate.

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