



ICAO

*International Civil Aviation Organization***Twenty Eighth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/28)
of APANPIRG**

Bangkok, Thailand, 01-05 July 2024

Agenda Item 2: Review outcomes of APANPIRG, APAC ANSP Committee, ATM Sub-group, MET Sub-group and other meetings relevant to CNS Sub-group

RELEVANT OUTCOMES OF MET SG, MET/IE WG AND MET/R WG

(Presented by the Secretariat)

SUMMARY

This paper presents outcomes from the MET meetings and discussions within the APANPIRG forum involving communication-related matters, such as IWXXM and SWIM, which are relevant to the CNS SG.

1. INTRODUCTION

1.1 Outcomes of the Twenty-seventh Meeting of the Meteorology Sub-group ([MET SG/27](#)) and subsequent review of MET SG/27 by the Thirty-fourth Meeting of the Asia and Pacific Air Navigation Planning and Implementation Regional Group ([APANPIRG/34](#)), the Twenty-second Meeting of the Meteorological Information Exchange Working Group ([MET/IE WG/22](#)) and the Thirteenth Meeting of the Meteorological Requirements Working Group ([MET/R WG/13](#)), which are relevant to the CNS SG, are summarised for the meeting's information.

2. DISCUSSIONMET SG/27 and APANPIRG/34

2.1 Relevant outcomes from MET SG/27 (Bangkok, Thailand, 4-8 Sep 2023) included the following two Draft Conclusions for further consideration by APANPIRG to support the implementation of the ICAO Annex 3 SARPs for disseminating MET information in the IWXXM form:

- Draft Conclusion MET SG/27-01: *IWXXM version compatibility*
 - It highlighted the need for MET service providers and end-users to maintain system compatibility with the IWXXM version that complies with the latest amendment to Annex 3.
- Draft Conclusion MET SG/27-03: *Global dissemination of IWXXM*

- It highlighted the need to expedite implementation of intra- and inter-regional network circuits and communication services necessary to disseminate MET information in the IWXXM form globally.

2.2 APANPIRG/34 (Hong Kong, China, 11-13 Dec 2023) subsequently considered and adopted the above IWXXM-related Draft Conclusions (formulated by MET SG/27) as the following two APANPIRG Conclusions:

- Conclusion APANPIRG/34/12: *IWXXM version compatibility*
- Conclusion APANPIRG/34/13: *Global Dissemination of IWXXM*

2.3 In addition, APANPIRG/34 recommended that the MET SG consider the implementation status of the IWXXM-related SARPs as a criterion for identifying, assessing, and reporting APANPIRG air navigation deficiencies.

2.4 Other relevant outcomes from MET SG/27 included the following two (2) Conclusions for action under the MET SG's terms of reference, which remind States of the critical need to ensure the quality of meteorological information provided and support States with Annex 3 implementation by incorporating seminars as a regular MET SG activity:

- Conclusion MET SG/27-02: *Provision of quality meteorological information*
 - It highlighted the critical need for States to ensure that TAC-formatted meteorological information is fully ICAO Annex 3-compliant, especially when it is the basis for disseminating the meteorological information in IWXXM form (through translation) to users.
- Conclusion MET SG 27-04: *Meteorological seminars*
 - Established the provision of seminars (with the ability for States to participate virtually) as a regular activity to support States implementing ICAO Annex 3 requirements, covering topics related to ICAO changes, new procedures and policies, future services and information exchange.

MET/IE WG/22 (in collaboration with ACSICG/11)

2.5 Relevant outcomes from MET/IE WG/22 (Bangkok, Thailand, 18-21 Mar 2024) included the following two Draft Conclusions for further consideration by [MET SG/28](#) (Bangkok, Thailand, 8-12 Jul 2024) to support the implementation of IWXXM-related SARPs:

- Draft Conclusion MET/IE WG/22-01: *Availability and Timeliness of TAC and IWXXM Meteorological Information*
 - Proposes further development of OPMET monitoring activities to support the States' implementation of the IWXXM-related SARPs.
- Draft Conclusion MET/IE WG/22-02 [and Draft Conclusion ACSICG/11/02]: *Review of APAC Region IWXXM Implementation Status/Readiness*
 - Highlights the need for States to share updates on the implementation status of the IWXXM-related SARPs, including the supporting AMHS connections and regional

and inter-regional IWXXM exchange arrangements.

2.6 Relevant outcomes from MET/IE WG/22 also included the following several action items to support further the implementation of the IWXXM-related SARPs:

- Action item MET/IE WG/22-02: Provide an update on conducting an IROG backup exercise for IWXXM data.
- Action item MET/IE WG/22-04: Facilitate monitoring of IWXXM dissemination.
- Action item MET/IE WG/22-06: Improve the regional guidance for disseminating SIGMET test messages in the IWXXM form.
- Action item MET/IE WG/22-07: Consider enabling the dissemination of METAR/SPECI in the IWXXM form for weather stations not listed in the ROBEX handbook.
- Action item MET/IE WG/22-11: Improve the guidance concerning ROC responsibilities for the IWXXM exchange.
- Action item MET/IE WG/22-13: Consider publishing the Guidelines for the Implementation of OPMET data exchange using IWXXM, Version 5, on the CNS section of the ICAO APAC Office eDocuments webpage.
- Action item MET/IE WG/22-14 [and Action item ACSICG/11-2]: Develop educational material on managing the distribution of IWXXM information when primary AMHS link failure occurs.
- Action item MET/IE WG/22-15 [and Action item ACSICG/11-3]: Develop a checklist of steps to facilitate operational IWXXM exchange.

MET/R WG/13 (in collaboration with ATFM/SG/14)

2.7 Relevant outcomes from MET/R WG/13 (Bangkok, Thailand, 22-26 Apr 2024) included the following Decision to share outcomes of the regional developments related to SWIM-based MET information to support ATFM:

- Decision MET/R WG/13-05: *Publishing the APAC Use Cases and User Requirements for SWIM-based MET Information Services Supporting ATFM*
 - It requested the ad hoc group to propose procedures for publishing and updating the document on the ICAO website.

3. ACTION BY THE MEETING

The meeting is invited to note the information contained in this paper.
