#### International Civil Aviation Organization



#### WORKING PAPER

Asia and Pacific (APAC)

Twenty-second Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/22)

Bangkok, Thailand, 18 to 21 March 2024

#### Agenda Item 7: Future work program and terms of reference

#### REVIEW MET/IE WG WORK PROGRAM AND TERMS OF REFERENCE

(Presented by the Secretariat)

#### **SUMMARY**

This paper presents the terms of reference and work program of the Meteorological Information Exchange Working Group (MET/IE WG) and invites the meeting to review and propose updates as necessary for possible approval by the Meteorology Subgroup (MET SG).

#### 1. INTRODUCTION

- 1.1 The MET/IE WG supports the MET SG (and APANPIRG) to improve the availability, reliability and compliance of OPMET in the Asia/Pacific Region.
- 1.2 This paper invites the meeting to review the terms of reference and work program of the group and to propose updates as necessary to ensure the MET/IE WG continues to meet its objectives to support increased safety, efficiency and capacity of the global air traffic system.

#### 2. DISCUSSION

2.1 A copy of the MET/IE WG terms of reference and work plan document, last reviewed by the Twenty-seventh Meeting of the Meteorology Sub-Group (MET SG/27), is provided at the **Appendix A** to this paper.

#### 3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
  - a) note the information contained in this paper; and
  - b) review the terms of reference and work program of the MET/IE WG in **Appendix A** to this paper and propose further updates, as necessary, for review and possible approval by MET SG.

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#### APPENDIX A

# ICAO ASIA AND PACIFIC METEOROLOGICAL INFORMATION EXCHANGE WORKING GROUP (MET/IE WG)

#### TERMS OF REFERENCE AND WORK PLAN

#### TERMS OF REFERENCE

#### 1. MEMBERSHIP

The MET/IE WG is made up of experts from the following bodies:

- APAC Regional OPMET Data Banks (RODBs): Brisbane, Nadi, Tokyo, Singapore and Bangkok;
- APAC Regional OPMET Centres (ROCs);
- World Area Forecast Centres (WAFCs), London and Washington;
- Secure Aviation Data Information Service (SADIS) and WAFS Internet File System (WIFS) Provider States, United Kingdom and United States;
- APAC Volcanic Ash Advisory Centres (VAACs): Darwin, Tokyo and Wellington;
- Designated focal points for SIGMET tests and regional OPMET bulletin exchange (ROBEX);
- Pacific Islands Aviation Weather Services (PIAWS) Panel; and
- International Air Transport Association (IATA).

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| 2. DESCRIPTION         |   |  |  |  |  |
|------------------------|---|--|--|--|--|
| Objective              | Increase OPMET availability and reliability needed for flight planning (efficiency) and in-flight re-planning (safety) in support of the Global Air Navigation Plan (GANP) framework and the Aviation System Block Upgrade (ASBUs) methodology.   |  |  |  |  |
| Benefits               | Increase in safety and efficiency (time and fuel savings).  |  |  |  |  |
| Functions of the group | Under guidance from the ICAO APAC Secretariat:  a) Review the OPMET exchange schemes in the APAC and other regions and develop proposals for their optimization, taking into account the requirements by the aviation users and global OPMET exchange;  b) Review and update of the procedures for inter-regional OPMET exchange and ensure the availability of the required APAC OPMET data for SADIS and WIFS;  c) Monitoring the format and dissemination of OPMET messages;  d) Monitor and participate in inter- and intra-regional trials of aeronautical meteorological information exchange in support of the implementation of IWXXM and SWIM;  e) Conduct trials and develop standardized quality control, monitoring and management procedures related to exchange of IWXXM and TAC OPMET information;  f) Participate in the implementation and promote awareness of the transition to digital exchange of OPMET (IWXXM) and System Wide Information Management (SWIM);  g) Conduct regular regional VAAC back-up and SIGMET tests; |  |  |  |  |

h) Provide support for the APAC MET Exercises;
i) Review and update the regional guidance material related to OPMET exchange, including relevant material on IWXXM, AMHS and SWIM;
j) Liaise and consult with other appropriate bodies within ICAO and WMO dealing with communication and/or management aspects of the OPMET exchange;
k) Coordinate and seek support from other enabling ICAO groups (e.g. SWIM TF, ACSICG, CRV OG, etc.) to support MET information exchange initiatives; and
l) Provide advice and report to the MET Sub-group on the above issues for further co-ordination through the ICAO Secretariat with other appropriate bodies.

| 3. COMMUNICATIO                              | 3. COMMUNICATION STRATEGIES                          |  |   |                                |  |  |
|--|--|--|---|--------------------------------|--|--|
| Description                                  | Target Audience                                      | Delivery Method                          | Frequency / Date  | Responsibility                 |  |  |
| Annual working group meeting                 | All APAC States                                      | In person                                | Annual / March  | Chair and Secretariat          |  |  |
| Interim Work<br>Program Progress<br>Report   | MET/IE WG Members                                    | Web-conference<br>E-mail                 | Quarterly/as determined by<br>Chair   | Chair(s) and<br>Secretariat    |  |  |
| MET Chairs<br>Coordination<br>Meeting        | Chairs of MET SG and its contributory working groups | Web-conference<br>E-mail                 | Quarterly/as determined by<br>MET SG Chairs   | Chair and Secretariat          |  |  |
| Major Work Program<br>Progress Report        | MET/IE WG Members                                    | Working Paper (MET/IE<br>WG meeting)     | Annually/published 14-days or more before the meeting   | Chair and Secretariat          |  |  |
| General correspondence                       | MET/IE WG Members                                    | E-mail                                   | As required   | MET/IE WG<br>Members           |  |  |
| New, specific<br>proposal for action<br>(WP) | MET/IE WG Meeting                                    | Working Paper (MET/IE<br>WG meeting)     | Annually/submitted 28-days or more before the meeting (published 14-days or more before the meeting)          | MET/IE WG<br>Members or States |  |  |
| New, specific information (IP)               | MET/IE WG Meeting                                    | Information Paper<br>(MET/IE WG meeting) | Annually/submitted 28-days or<br>more before the meeting<br>(published 14-days or more<br>before the meeting) | MET/IE WG<br>Members or States |  |  |
| Working Group<br>Meeting Report              | MET/IE WG Members and all APAC States                | MET/IE WG Meeting<br>Report              | Annually/published 21-days or less after the meeting  | Chair and Secretariat          |  |  |
| Working Group<br>Progress Report             | MET SG Meeting                                       | Working Paper (MET SG meeting)           | Annually/submitted 28-days or<br>more before the meeting<br>(published 14-days or more<br>before the meeting) | Chair and Secretariat          |  |  |

#### WORK PROGRAM

| Activity  | Time Frame            | Responsibility | Status |
|---|-----------------------|----------------|--------|
| Activity 1: Availability of OPMET information                       | Ongoing               | MET/IE WG      |        |
| Activity 2: Timeliness, compliance and regularity of OPMET exchange | Ongoing               | MET/IE WG      |        |
| Activity 3: SIGMET and Advisory Tests                               | Ongoing               | MET/IE WG      |        |
| Activity 4: VAAC Backup Tests                                       | Ongoing               | MET/IE WG      |        |
| Activity 5: IROG Backup Tests                                       | Ongoing               |                |        |
| Activity 6: Regional guidance material related to data exchange     | Ongoing               | MET/IE WG      |        |
| Activity 7: IWXXM implementation                                    | 20212023-<br>20232026 | MET/IE WG      |        |
| Activity 8: MET information exchange scheme                         | Ongoing2021-<br>2026  | MET/IE WG      |        |
| Activity 9: MET information in SWIM                                 | Ongoing2021-<br>2026  |                |        |

| 5. WORK PLAN                                  |                |              |      |        |  |
|---|----------------|--------------|------|--------|--|
| Activity / Milestone                          | Accountability | Predecessors | Date | Status |  |
| Activity 1: Availability of OPMET information |                |              |      |        |  |

| 5. WORK PLAN   |                          |              |                              |                            |
|--|--------------------------|--------------|------------------------------|----------------------------|
| Activity / Milestone   | Accountability           | Predecessors | Date                         | Status                     |
| Activity 1.1: Perform real time monitoring if required   | IATA                     | -            | If required                  |                            |
| Activity 1.2: Monitor and score SADIS/WIFS OPMET reception.  | IATA                     | -            | Annually Jan                 |                            |
| Activity 1.3: Capture OPMET monitoring,  | RODBs                    | 1.2          | Annually<br>Oct/Nov          |                            |
| Activity 1.4: Assess TAC OPMET monitoring results and share results with RODBs   | RODB Bangkok             | 1.3          | Annually<br>Oct/Nov          |                            |
| Activity 1.6: Prepare paper reporting results and deficiencies to MET/IE WG meeting.   | IATA and RODB<br>Bangkok | 1.4          | Annually Feb                 |                            |
| Activity 1.7: Report summary of OPMET availability results to MET SG   | Secretariat and Chair    | 1.5          | Annually<br>May              |                            |
| Activity 1.8: Advise States of OPMET deficiencies and corrective actions.  | Secretariat              | 1.6          | Annually Jun                 |                            |
| Activity 1.9: Actively engage States with corrective against deficiencies.   | ROCs                     | 1.7          | As required                  |                            |
| Milestone 1: Achieve 95% (90%) or greater OPMET availability for AOP (non-AOP) aerodromes at RODBs and WAFS.                                   | MET/IE WG                | 1.8          | Annually<br>Jun              |                            |
| Activity 2: Performance indices of OPMET excl  | hange                    |              |                              |                            |
| Activity 2.1: Monitor and collate OPMET data.  | RODBs and IATA           | -            | Annually Dec                 |                            |
| Activity 2.2: Score RODB OPMET reception against PI thresholds.  | RODB Bangkok             | -            | Annually Jan                 |                            |
| Activity 2.3: Analyse data and share results with RODBs  | RODB Bangkok             | 2.2          | Annually Jan                 |                            |
| Activity 2.4: Prepare paper report results to MET/IE WG meeting and identify corrective actions  | RODB Bangkok             | 2.3          | Annually Feb                 |                            |
| Activity 2.5: Report summary of OPMET availability, compliance and regularity results to METSG   | Chair                    | 2.4          | Annually<br>before MET<br>SG |                            |
| Activity 2.6: Inform States of non-compliance and corrective actions.  | Secretariat              | 2.5          | Annually Jun                 |                            |
| Activity 2.7: Provide support for States to support corrective actions if requested.   | RODBs                    | 2.6          | As required                  |                            |
| Milestone 2: Achieve 95% (90%) or greater OPMET availability, compliance and regularity for AOP (non-AOP) aerodromes at RODBs, SADIS and WIFS. | MET/IE WG                | 2.7          | Annually Jun                 |                            |
| Activity 3: SIGMET and Advisory Tests  |                          |              |                              |                            |
| Activity 3.1: Review SIGMET Test procedures  | MET/IE WG                | -            | Annually<br>Aug              |                            |
| Activity 3.2: State Letter regarding SIGMET Tests  | Secretariat              | 3.1          | Annually Sep                 |                            |
| Activity 3.3: Email States regarding SIGMET Tests  | Secretariat              | 3.2          | Annually                     | Last Wed in Oct            |
| Activity 3.4: Conduct and collate data for WC SIGMET Tests   | RODBs                    | 3.2          | Annually                     | 2 <sup>nd</sup> Wed in Nov |

| 5. WORK PLAN  |   |              |                           |                            |
|---|---|--------------|---------------------------|----------------------------|
| Activity / Milestone  | Accountability                          | Predecessors | Date                      | Status                     |
| Activity 3.5: Conduct and collate data for WV SIGMET Tests  | RODBs                                   | 3.2          | Annually                  | 3 <sup>rd</sup> Wed in Nov |
| Activity 3.6: Conduct and collate data for WS SIGMET Tests  | RODBs                                   | 3.2          | Annually                  | 4 <sup>th</sup> Wed in Nov |
| Activity 3.7: Analyse test data   | RODB Singapore and Tokyo                | 3.4 - 3.6    | Annually Jan              |                            |
| Activity 3.9: Report to MET/IE WG   | RODB Singapore and Tokyo                | 3.8          | Annually<br>Mar           |                            |
| Activity 3.10: Report on SIGMET Test Results to MET SG.   | Chair                                   | 3.9          | Annually<br>May           |                            |
| Activity 3.11: Advise States of SIGMET corrective actions   | Secretariat                             | 3.9          | Annually Jun              |                            |
| <b>Milestone 3:</b> Improved issuance and compliance of SIGMETs   | MET/IE WG                               | 3.11         | Annually Jun              |                            |
| Activity 4: VAAC Back-up Tests  |   |              |                           |                            |
| Activity 4.1: Review and Update VAAC Back-up Test procedures  | MET/IE WG and VAACs                     |              | Annually                  |                            |
| Activity 4.5: Collect test results and send to VAAC Provider State members                                      | RODBs                                   | 4.3          | Annually Oct - TBC        |                            |
| Milestone 4: VAAC Back-up Tests conducted.  | VAAC Back-up<br>Focal Points<br>Members | 4.8          | Annually Jun              |                            |
| Activity 5: IROG Back-up Tests  |   | 1            | •                         |                            |
| Activity 5.1: Investigate the feasibility and benefits of back-up arrangements of IROG Tokyo, Nadi and Brisbane | IROG Nadi, Tokyo<br>and Brisbane        | -            | Nov 2023                  |                            |
| Activity 5.2: Review IROG Back-up Test procedures to include all IROG.  | IROG Bangkok and<br>Singapore           | -            | Apr 2023,<br>Annually Feb |                            |
| Activity 5.3: Updated IROG Back-up Procedures in ROBEX Handbook.  | Secretariat                             | 5.2          | Annually<br>May           |                            |
| Activity 5.4: Identify list of MET Bulletins to monitor.  | IROG Bangkok and<br>Singapore           | -            | Annually<br>Jan/Feb       |                            |
| Activity 5.5: Conduct IROG Back-up Test of Bangkok and analyse results  | IROG Bangkok and<br>Singapore           | 5.4          | Annually<br>Sept/Oct      |                            |
| Activity 5.6: Conduct IROG Back-up Test of Singapore and analyse results  | IROG Bangkok and<br>Singapore           | 5.4          | Annually<br>Jan/Feb       |                            |
| Activity 5.8: Report to MET/IE WG   | IROG Bangkok and<br>Singapore           | 5.7          | Annually<br>Mar           |                            |
| Milestone 5: IROG Back-up Tests conducted, analysed and report complete.  | IROG Bangkok<br>and Singapore           | 5.7          | Annually<br>Mar           |                            |
| Activity 6: Regional guidance material related t  | o data exchange                         |              |                           |                            |
| Activity 6.1: Review OPMET exchange definitions as defined in ROBEX Handbook and update as necessary.           | All RODBs                               | -            | Annually Apr              |                            |
| Activity 6.2: Implement updates to Appendix A and B in ROBEX Handbook.  | Secretariat                             | 6.1          | Annually<br>May           |                            |
| Activity 6.3: Document roles for monitoring IWXXM performance in APAC   | Thailand and<br>Secretariat             |              | Nov 2023                  |                            |

| 5. WORK PLAN  |   |                  |                        |        |
|---|---|------------------|------------------------|--------|
| Activity / Milestone  | Accountability                                    | Predecessors     | Date                   | Status |
| Activity 6.4: Propose quality threshold for translated data following consultation with users   | IATA, Chair WG                                    |                  | Nov 2023               |        |
| Activity 6.6: Complete update of ROBEX Handbook including Table MET 2A.   | Secretariat                                       | -                | Annually<br>May        |        |
| Activity 6.7: Review ANP Tables (initially MET II-2) and ensure all necessary aerodromes are contained in OPMET bulletins   | WG  | -                | May<br>Annually        |        |
| Activity 6.8: Seek MET/SG endorsement of the updated ROBEX Handbook.  | Secretariat                                       | -                | Annually Jun           |        |
| Activity 6.9. Support MET SG with development of MET-specific requirements in the ANP, Volume III   | WG  |                  | As required            |        |
| Milestone 6: ROBEX Handbook remains relevant  | Secretariat                                       | 6.7              | Annually Sep           |        |
| Activity 7: IWXXM Implementation  |   | ,                | ,                      |        |
| Activity 7.1: Monitor migration to IWXXM.   | WG  | -                | As required            |        |
| Activity 7.3: Report to MET SG on APAC States' IWXXM implementation status.   | Secretariat/Chair,<br>WG                          | 7.2              | Next meeting<br>MET SG |        |
| Activity 7.4: Increase awareness of the requirement for States to exchange of OPMET data in IWXXM format and the impact of inability to do so.  | WG  |                  | As required            |        |
| Activity 7.5: Support States with the planning and implementation of the dissemination of the required meteorological information in IWXXM form, in particular at the designated APAC Regional OPMET Centres (ROCs) and Regional OPMET Databanks (RODBs). | WG  |                  | As required            |        |
| Activity 7.10: Prepare information (e.g. issues, CONOPS) for MET/P WG-MIE (possible MET/IE agenda items on issues on IWXXM and information service provision)   | WG  |                  | As required            |        |
| Activity 7.12: Maintain IWXXM online register   | Australia, Hong<br>Kong, China and<br>Secretariat |                  | Monthly                |        |
| <b>Milestone 7:</b> Report to MET/IE WG and MET SG on IWXXM exchange and testing.   | Secretariat and Chair                             | 7.5, 7.6 and 7.8 | Annually<br>May        |        |
| Activity 8: MET Information Exchange Structu  | ire   | ,                | ,                      |        |
| Activity 8.1: Review ROBEX Scheme diagram.  | All RODBs,<br>Secretariat                         |                  | May<br>Annually        |        |
| Activity 8.2: Review the structure of the ROBEX exchange in light of the introduction of SWIM.  | WG  |                  | Annually Feb           |        |
| Activity 8.3: Review use of the Request/Reply service   | RODBs   | -                | May 2023               |        |
| Activity 8.4: Improve the efficiency of Request/Reply service   | RODBs   | 8.3              | Sep 2023               |        |
| Milestone 8: Improved efficiency and effectiveness of ROBEX Scheme  | MET/IE WG   | -                | 2023                   |        |
| Activity 9: MET information in SWIM   |   |                  |                        |        |
| Activity 9.1: Assist in the definition of the APAC SWIM Met service catalogue   | WG  | -                | As required            |        |
| Activity 9.2: Assist in the definition of the APAC SWIM Met data catalogue  | WG  | -                | As required            |        |

| 5. WORK PLAN   |                |              |             |        |
|--|----------------|--------------|-------------|--------|
| Activity / Milestone   | Accountability | Predecessors | Date        | Status |
| Activity 9.3: Develop guidance to support States' implementation of MET information services | WG             | -            | As required |        |
| Milestone 9: MET-SWIM services implemented in APAC   | MET/IE WG      | -            | 2023-2027   |        |

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