



ICAO

*International Civil Aviation Organization*

**INFORMATION PAPER**

**Asia and Pacific (APAC)**

**Twentieth Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/20)**

Online, 28 to 30 March 2022

---

**Agenda Item 4: Meteorological information exchange in digital form**

**STATUS AND PLANS FOR IMPLEMENTATION OF IWXXM IN THAILAND**

(Presented by Thailand)

**SUMMARY**

This paper presents a brief overview of the status and plans for the implementation of IWXXM in Thailand.

**1. INTRODUCTION**

1.1 The implementation of ICAO Meteorological Information Exchange Model (IWXXM) for OPMET exchange is proposed to become a standard in the Amendment 78 to ICAO Annex 3 which became effective in Nov 2018 and applicable in Nov 2020. This paper provides a brief update on the status and plans for the implementation of IWXXM in Thailand.

**2. DISCUSSION**

Thailand NOC

2.1 Adopting a role as the National OPMET Centre of Thailand (Thailand NOC), Thai Meteorological Department (TMD) has been collecting and distributing national METAR/SPECI, TAF and SIGMET reports in IWXXM V 3.0 by translation since the beginning of 2020.

2.2 The exchange of IWXXM reports from the Thailand NOC to Bangkok ROC (AEROTHAI) conducts through the Air Traffic Services (ATS) Message Handling System (AMHS) with File Transfer Body Part (FTBP).

Bangkok ROC

2.3 Bangkok ROC has been collecting all OPMET data from its Area of Responsibility (AoR) in both TAC and IWXXM formats through AFTN/AMHS.

2.4 Bangkok ROC is disseminating IWXXM reports, in addition to delivering the international IWXXM reports to Thailand NOC, that received from its area of responsibility to other ROCs/RODBs. At the moment, Bangkok ROC disseminates IWXXM OPMET to Hong Kong ROC, Singapore RODB and Brisbane RODB.

2.5 Bangkok ROC provides the translation service, especially for its AoR, by bilateral agreement. Currently, the translation of OPMET data (METAR/SPECI and TAF) from TAC to IWXXM V 3.0 is operating for Vietnam NOC. The AMHS with FTBP protocol for exchanging TAC/IWXXM information is expected to be deployed between Bangkok COM Centre and Vietnam COM Centre in quarter 3 of 2022.

Bangkok RODB

2.6 The request/reply function is available for both TAC and IWXXM at Bangkok RODB.

Future Plans

2.7 According to the medium-term Strategic Initiative Implementation Plan of Thailand (2023-2027), AMSs, AMOs and MWO are planning to generate their reports in IWXXM format by source.

2.8 To establish the bilateral agreements for translation services with partners, particularly under the AoR of Bangkok ROC.

2.9 To implement the exchange of IWXXM reports with other NOCs under the AoR of Bangkok ROC and ROCs/RODBs. The communication network will be upgraded to CRV starting in May 2022.

2.10 To test the exchange of IWXXM with IROG from other regions, given that the network from both ends is capable of supporting the exchange of IWXXM.

2.11 To create the Performance Indices (PI) in both TAC and IWXXM reports for the APAC in 2023.

**3. ACTION BY THE MEETING**

3.1 Note the information contained in this paper.

-----