

International Civil Aviation Organization

ICAO

INFORMATION PAPER (IP/06)**ICAO Asia and Pacific (APAC)****Twenty-third Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/23)**

Bangkok, Thailand, 25 to 28 March 2025

Agenda Item 6: Meteorological information exchange in IWXXM form**IWXXM IMPLEMENTATION STATUS IN THE PHILIPPINES VIA AMHS**

(Presented by Philippines)

SUMMARY

This paper presents the status of ICAO Meteorological Information Exchange Model (IWXXM) implementation in the Philippines and the results of the conducted testing and integration to the ATS Message Handling System (AMHS).

1. INTRODUCTION

1.1 Civil Aviation Authority of the Philippines (CAAP) acquires its meteorological data from Philippine Atmospheric Geophysical, Astronomical Services Administration (PAGASA) which serves as the National OPMET Centre (NOC) for the Philippines. This meteorological data by PAGASA is distributed to aviation stakeholders thru CAAP's AMHS/AFTN network.

1.2 The World Meteorological Organization (WMO) published IWXXM version 2023-1 on July 13, 2023, which requires contracting organizations to exchange OPMET data in this format.

2. DISCUSSIONStatus of IWXXM Implementation in the Philippines via AMHS

2.1 PAGASA has acquired a translator of METAR/SPECI and TAF to IWXXM version 3.0 in 2022

2.2 Early this year, PAGASA has upgraded their software to be compliant with IWXXM version 2023-1 through their provider while the established connection between IWXXM system and AMHS is still pending.

IWXXM Data Exchange through AMHS

2.3 CAAP and PAGASA has conducted in August 2024 an internal testing of transporting IWXXM file (in .gzip) through the AMHS UA. The result successfully demonstrated the capability of AMHS to handle IWXXM data transmission.

2.4 Likewise in a separate test, an exchange of 2MB-capacity FTBP was conducted between Manila and Hong Kong Communication Centres to establish the readiness of the network in preparation for the IWXXM implementation between Manila National OPMET Centre (NOC) and Hong Kong Regional OPMET Centre (ROC). The conducted test was successful.

Future Plan

2.5 PAGASA and CAAP are endeavouring to establish a secure network between PAGASA's IWXXM server and CAAP's AMHS system, that will serve as the gateway to Hong Kong ROC. Likewise, a letter of agreement is being formed between the two organizations.

2.6 Conducting IWXXM exchange test between Manila NOC and Hong Kong ROC is also being planned.

2.7 Implementing the transmission/exchange of OPMET data in the current IWXXM format using the developed IWXXM system is being pursued as soon as possible.

3. ACTION BY THE MEETING

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