

International Civil Aviation Organization



ICAO

INFORMATION PAPER

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Exchange Working Group (MET/IE WG/21)**

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Agenda Item 4 : Meteorological information exchange in digital form

UPDATES ON THE IMPLEMENTATION OF IWXXM IN INDONESIA

(Presented by Indonesia)

SUMMARY

This paper provides updated information on the implementation of ICAO Meteorological Information Exchange Model (IWXXM) format in Indonesia.

1. INTRODUCTION

1.1 The international exchange of IWXXM formatted OPMET information (METAR/SPECI, TAF, AIRMET, SIGMET, Volcanic Ash Advisory, Tropical Cyclone Advisory and Space Weather Advisory) became a standard practice in the Annex 3 from 5 November 2020.

1.2 The Republic of Indonesia (BMKG together with DGCA and Airnav Indonesia) has prepared for the implementation of the IWXXM message exchange. This information paper provides Indonesia's progress in this regard.

2. DISCUSSION

Current status regarding IWXXM information

2.1 In the implementation of IWXXM In Indonesia, BMKG developed a Meteorological system called ATS X.400 which is able to convert OPMET Data in IWXXM format version 3.0 which is directly connected to the AMHS system (Airnav Indonesia).

2.2 The implementation of IWXXM in Indonesia is divided into 3 (three) stages, as follows:

- Implementation of IWXXM phase I, transition the OPMET data and prepare a system that is able to provide OPMET data in the IWXXM format version 3.0 and connect directly with AMHS.

- Implementation of IWXXM phase II, namely exchanging OPMET data in the IWXXM format version 3.0 using ATS X.400 and AMHS with a sending and receiving mechanism through the User Agent on AMHS can run well.
- Implementation of IWXXM phase III, namely exchanging OPMET data in the IWXXM format version 3.0 with RODB manually and automatically both sending and receiving.

2.3 In the trial implementation of IWXXM using the ATS X.400 system AMHS using several stages as follows:

- IP and NSAP pings;
- BMKG sends OPMET news in text form to AMSS;
- AMSS sends OPMET news in text form to BMKG;
- BMKG sends OPMET news in the form IWXXM to AMSS (attach .gzip);
- AMSS sends OPMET news in the form IWXXM to BMKG (attach .gzip).
- AMSS undertook one of the RQMs;
- AMSS performs one of the RQX;
- Automatic news delivery including xml gzipped bulletins and TAC.

2.4 In the next stage, Indonesia will plan to try out IWXXM version 3.0 implementation with RODB.

3. ACTION BY THE MEETING

3.1 Note the information contained in this paper.
