

**58th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS**

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AGENDA ITEM 4: AIR NAVIGATION

**UPDATES ON THE IMPLEMENTATION OF IWXXM IN
CHINA**

(Presented by the People's Republic of China)

INFORMATION PAPER

SUMMARY

This paper presents the recent updates on implementation of OPMET exchange in ICAO Meteorological Information Exchange Model (IWXXM) in China.

UPDATES ON THE IMPLEMENTATION OF IWXXM IN CHINA

1. INTRODUCTION

1.1 The requirement of digital exchange of aeronautical meteorological information, including METAR/SPECI, TAF, SIGMET, AIRMET, Volcanic Ash Advisory, Tropical Cyclone Advisory and Space Weather Advisory, in IWXXM GML form became applicable on 5 November 2020 according to Amendment 79 to ICAO Annex 3.

1.2 The following sections introduce the recent progress regarding the implementation of OPMET exchange in China.

2. DISCUSSION

IWXXM Implementation in China

2.1 China is currently using translation as the primary mode of IWXXM MET message generation.

2.2 China has completed the IWXXM translation for METAR/SPECI/TAF reports in IWXXM V3.0 in Dec. 2021, and supports the IWXXM translation for SIGMET reports in IWXXM V3.1 since 2022.

2.3 China also provides technical support on IWXXM MET translation to Mongolia since 2022, and summarizes some technical key points during the research of translation and the exchange of experiences.

IWXXM Exchange Tests

2.4 Following the tests with ROCs of Bangkok (Thailand), Hong Kong (China), Brisbane (Australia) and Tokyo (Japan) in the past three years, the IWXXM MET exchanging tests with ROC Singapore were conducted on Feb. 7th, 2023.

2.5 Currently, the IWXXM in China is in operation and routinely exchanging its IWXXM MET messages with the ROCs of Hong Kong (China), Tokyo (Japan), Brisbane (Australia) and Singapore, while also receiving IWXXM MET messages from Bangkok (Thailand).

Future Plans

2.6 With the implementation of IWXXM in much more NOC/ROCs, China would like to conduct further IWXXM MET exchange with other NOCs, ROCs and RODBs.

2.7 China plans to upgrade the METAR/SPECI/TAF to IWXXM V3.1 in 2023.

2.8 Direct generation from source in major international AMOs and nine MWOs of China will be progressively implemented in 2024.

3. ACTION BY THE CONFERENCE

3.1 The Conference is invited to note the information contained in this Paper.