



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

IWXXM IMPLEMENTATION IN SINGAPORE

(Presented by Singapore)

SUMMARY

This paper presents an update on Singapore's status in the implementation of the ICAO Meteorological Information Exchange Model (IWXXM).

1. INTRODUCTION

1.1 Amendment 79 to Annex 3 – *Meteorological Service for International Air Navigation* (applicable 5 November 2020) requires States to disseminate METAR/SPECI, TAF, AIRMET, SIGMET, and where applicable, Volcanic Ash, Tropical Cyclone, and Space Weather Advisories, in IWXXM GML form.

1.2 This paper provides an update on Singapore's progress in the implementation of IWXXM. The implementation of IWXXM involves the Meteorological Service Singapore (MSS) as the data producer, aggregator and translator, and the Civil Aviation Authority of Singapore (CAAS) which operates the communication centre.

2. DISCUSSION

Upgrading of Singapore's Communication and Message Switching Systems

2.1 Singapore has been upgrading its communication and message switching systems as part of continuous improvement efforts to efficiently support international data exchange. The CAAS will complete the upgrading of its AMHS in the first half of 2022.

IWXXM Implementation in Singapore

2.2 Singapore has been operationally exchanging its IWXXM MET messages with the ROCs of Bangkok, Brisbane, Hong Kong China, Kuala Lumpur, Tokyo and Wellington.

2.3 Singapore and Tokyo ROCs as well as Singapore and London ROCs successfully conducted IWXXM message exchange tests in February 2022 and March 2022 respectively. The inter-regional operational exchange of IWXXM messages between IROG Singapore and IROG London will commence when the integrated diversion/alternate path between APAC and EUR is ready.

Next Stage in the Translation and Generation of IWXXM Message

2.4 Singapore will continue to conduct message exchange tests with ROCs and NOCs to support the full operationalisation of IWXXM exchange in the region.

2.5 Singapore is currently using translation as the primary mode of IWXXM message generation. Messages translated are routinely monitored to ensure that initial issues with the translation can be highlighted and resolved. Generation from source will be progressively implemented when the respective systems generating the data are upgraded.

3. ACTION BY THE MEETING

3.1 Note the information contained in this paper.
