



ICAO

International Civil Aviation Organization

INFORMATION PAPER

Asia and Pacific (APAC)

Twenty-first Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/21)

Bangkok, Thailand, 27 to 29 March 2023

Agenda Item 4: Meteorological information exchange in digital form

UPDATE ON IWXXM IMPLEMENTATION IN SINGAPORE

(Presented by Singapore)

SUMMARY

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

1. INTRODUCTION

1.1 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 completed the upgrading of its Air Traffic Services Message Handling System (AMHS) in April 2022.

IWXXM Implementation in Singapore

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

2.3 The inter-regional exchange of IWXXM messages between IROG Singapore and IROG London was fully operationalised in January 2023. The full APAC IWXXM data set that IROG Singapore is receiving is being disseminated to IROG London and vice versa. In addition, IROG Singapore is disseminating the following IWXXM space weather advisories to all APAC IWXXM ready ROCs.

- LNXX// LFPW
- LNXX// UUAG
- LNXX// EKFL
- LNXX// EGRR

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. 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.
