



ICAO

*International Civil Aviation Organization***Tenth Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/10)***Bangkok, Thailand, 24 - 26 May 2023***Agenda Item 8:** Inter-regional AFS/MPLS/IP based connection**ACSICG SUPPORT FOR PROGRESSING INTER-REGIONAL IWXXM EXCHANGE**

(Prepared by Australia)

SUMMARY

This paper describes the status of inter-regional IWXXM exchange as observed by the Meteorological Information Exchange Working Group (MET/IE) and requests the support from ACSICG to further progress the global exchange of IWXXM.

1. INTRODUCTION

- 1.1 The implementation of the ICAO Meteorological Information Exchange Model (IWXXM) for OPMET exchange became a standard in Amendment 78 to ICAO Annex 3 in November 2020.
- 1.2 The global exchange of IWXXM via the Aeronautical Fixed Service requires the extended ATS Message Handling System (AMHS) with File Transfer Body Part (FTBP).

2. DISCUSSION

- 2.1 At the recent Twenty-first meeting of the ICAO APAC Meteorological Information Exchange Working Group (MET/IE WG/21), under the topic of meteorological information exchange in digital form, the working group noted that a significant obstacle in the progress of global availability of IWXXM is the inter-regional exchange.
- 2.2 The lack of global availability of OPMET is currently inhibiting system suppliers and users switching to IWXXM and delaying benefits realisation from the implementation of IWXXM.
- 2.3 While primary inter-regional AMHS connections with EUR and NAM regions now support IWXXM exchange, inter-regional IWXXM exchange with the MID and AFI regions has not been established. Furthermore, alternate (secondary) paths to each region are only limitedly available and will need further work.

- 2.4 Adequate capacity and bandwidth to support IWXXM exchange benefits from the availability of MPLS IP based regional networks, which the MET/IE WG is not aware of being in existence or planned in the MID and AFI region.
- 2.5 The interconnecting of the CRV with future equivalents in the MID and AFI regions must also be considered for the global IWXXM exchange to succeed.
- 2.6 Whilst the APAC MET/IE WG realizes the APAC ACSICG is also not in a position to control the ongoing progress of the inter-regional AFS/MPLS/IP based connection, it hopes ACSICG can use its reporting mechanism to bring this matter to the attention of the Communication Panel of the ANC.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information contained in this paper;
 - b) discuss any relevant matter as appropriate; and
 - c) consider a draft conclusion for ICAO HQ action.
