

International Civil Aviation Organization

ICAO

**Eighth Meeting of Aeronautical Communication Service
Implementation Co-ordination Group of APANPIRG
(ACSICG/8)**

Video Tele-Conference, 21 – 23 June 2021

- Agenda Item 5:** Review and update the AMHS/ATN Implementation Status
5.2 Report on the readiness status of AMHS to support IWXXM

**SINGAPORE’S READINESS STATUS OF AIR TRAFFIC SERVICE MESSAGE HANDLING
SYSTEM (“AMHS”) TO SUPPORT IWXXM TRAFFIC & IWXXM TRAFFIC ISSUES
BETWEEN APAC AND EUROPE REGIONS**

(Presented by Singapore)

SUMMARY

This information paper updates the status of Singapore’s AMHS readiness to support IWXXM traffic and highlights IWXXM traffic issues between Asia and Pacific (“APAC”) and Europe regions.

1. INTRODUCTION

1.1 The exchange of ICAO Meteorological Information Exchange Model (“IWXXM”) messages between States/ Administrations has been adopted for operations since 5 November 2020.

1.2 The need of File Transfer Body Part (“FTBP”) and Interpersonal Message (IPM) Heading Extension (“IHE”) for the exchange of IWXXM messages is required and each AMHS message (including FTBP) of up to 4MB is permitted, to meet IWXXM guidelines.

2. DISCUSSION

Singapore’s AMHS readiness to support IWXXM traffic

2.1 Singapore has completed its AMHS upgrade and implemented Common aeRonautical Virtual private network (CRV) to support IWXXM traffic in March 2019 and November 2019 respectively.

2.2 Singapore has operationalised IWXXM traffic with Australia, Hong Kong China, Malaysia and Thailand, and Traditional Alphanumeric Code (“TAC”) messages are exchanged in parallel.

IWXXM traffic issues between APAC and Europe regions

2.3 Singapore, as the Interregional OPMET Gateways (IROG) between APAC and Europe regions, is required to establish IWXXM exchange with the United Kingdom (“UK”). The Singapore-UK connection is also an interregional Aeronautical Fixed Services (AFS) link between the APAC and Europe regions.

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2.4 The implementation of IWXXM exchange between Singapore and UK has been postponed due to the absence of alternate network path to divert IWXXM traffic when the Singapore-UK connection is down.

2.5 There is currently only one path between APAC and Europe regions that supports the exchange of IWXXM traffic and the flexibility to re-route IWXXM traffic is required. As the exchange of IWXXM traffic has been adopted for operations since 5 November 2020, it is therefore important for States/ Administrations to be ready for the exchange of IWXXM traffic.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate
