

International Civil Aviation Organization



ICAO

**Twenty Fifth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/25) of
APANPIRG**

Video Tele-Conference, 18 – 22 October 2021

Agenda Item 3: Aeronautical Fixed Service (AFS)

- 3.2. Review the AMHS readiness status for supporting IWXXM Traffic of the States/Administrations;

AMHS CONNECTIONS BETWEEN APAC AND EUR/NAT

(Presented by the Secretariat)

SUMMARY

This paper presents the current status and future planning of AMHS connection between APAC region and Europe.

1. INTRODUCTION

1.1 The ICAO EUR/NAT Office initiated a coordination with ICAO APAC Office on interregional AMHS connection issue to support future AIRM data, such as IWXXM.

1.2 The ICAO APAC ACSICG and concerned BBIS hosting Member States discussed and updated the relevant information in this regard.

2. DISCUSSION

2.1 The EUR/NAT AFS to SWIM Transition Task Force (AST TF) raised its concern on the establishment of a new AMHS connection with APAC in order to increase, in short term, the robustness and the resilience of the AFS network.

2.2 Since that the AIRM data start to be exchanged within AFS, the pressure on the only AMHS link from EUR/NAT to APAC within London is very high and could be a single point a failure and very damageable if it should break.

2.3 Refer to the APAC Routine Directory for AFTN circuits, for the links between Europe and Asia, there are:

- a. Bangkok-Rome AFTN
- b. Beijing-Khabarovsk AFTN

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- c. Fukuoka-Moscow AFTN
- d. Singapore-London AMHS

2.4 The ICAO Secretariat approached Thailand, China, Japan, Singapore and Russia for the latest update on the respective connections, and the information from States is summarized as follows:

2.4.1 The existing Singapore-London link uses an IPLC from Telstra. The utilisation rate (pre-COVID19) of this IPLC was between 18% to 28%. Singapore and UK will continue to monitor the utilisation rate and will throttle up the bandwidth if the peaks are above the 50% utilisation of the bandwidth. Singapore will continue to provide this bilateral link to maintain the inter-connection between APAC and EUR/NAT region.

2.4.2 The Rome-Bangkok AMHS connection is waiting for the readiness from the Rome side. Thailand (AEROTHAI) tested the inter-operability between AMHS systems previously and are waiting for the AMHS transition. The planned connection configuration will have 2 MPLS links between Rome and Bangkok, and AEROTHAI commissioned one MPLS already.

2.4.3 China, Japan and Russia are interested in switching to AMHS exchange between Beijing and Khabarovsk, and between Fukuoka and Moscow, the transition to AMHS of these two connection is expected as soon as possible, once Russia joins the CRV network.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

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