



ICAO

*International Civil Aviation Organization***Seventh Meeting of Aeronautical Communication Service Implementation Co-ordination Group of APANPIRG (ACSICG/7)**

Web-conference, 21 – 23 July 2020

Agenda Item 5: Report on the readiness status of AMHS to support IWXXM service by November 2020

Note: Member States are expected to provide readiness status for supporting IWXXM traffic (Annex 1).

AIR TRAFFIC SERVICE MESSAGE HANDLING SYSTEM (AMHS) READINESS TO SUPPORT ICAO METEOROLOGICAL INFORMATION EXCHANGE MODEL (IWXXM)

(Presented by Federal Aviation Administration/USA)

SUMMARY

This paper presents the status of AMHS implementation in the region and underlying network that can support IWXXM distribution.

1. INTRODUCTION

1.1 IWXXM has been adopted by APANPIRG with service beginning in November 2020. AMHS is the designated distribution mechanism for IWXXM.

1.2 IWXXM is distributed in parallel with Traditional Alphanumeric Code (TAC) data that has previously been distributed by AFTN and AMHS.

1.3 IWXXM can only be distributed by AMHS as a message attachment using the File Transfer Body Part (FTBP) function.

1.4 It is also noted that the bandwidth requirement for IWXXM, based on Extensible Markup Language (XML), is large even after compression.

2. DISCUSSION

2.1 AMHS has been in operation since 2005 and there are now twenty regional members (ANSPs) that have completed their implementation, per information from the Air Traffic Services (ATS) Messaging Management Centre (AMC). Please refer to attached Communication Chart for verification.

2.2 The following ANSPs should be able to support IWXXM using their respective AMHS with FTBP capability: Australia; Bangladesh; Bhutan; Cambodia; China; Hong Kong, China; Macao, China; Fiji; India; Japan; Republic of Korea; Myanmar; Nepal; New Zealand; Pakistan; Philippines; Singapore; Sri Lanka; Thailand; and USA.

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2.3 It is recommended that States with designated BBIS: Australia, China, Hong Kong, China, Fiji, India, Japan, Singapore, Thailand and USA increase their respective connection bandwidth to greater than 64kbps if they are capable.

2.4 Based on the current AMHS status in the region, any ANSPs that are not on the list identified in section 2.2 above that plan to support IWXXM must implement an AMHS system with FTBP functionality:

Conclusion/Decision XX/XX - AMHS READINESS TO SUPPORT IWXXM	
What: States that have no AMHS with FTBP capability and plan to support IWXXM will need to deploy AMHS service with a minimum of 64kbps bandwidth. AFTN cannot support IWXXM attachment	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: AFTN is not capable	Follow-up: <input checked="" type="checkbox"/> Required from States
When: 30-Nov-20	Status: Draft to be adopted by PIRG
Who: <input type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX	

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
