



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 READINESS STATUS FOR SUPPORTING IWXXM TRAFFIC
OF THE STATES/ADMINISTRATIONS**

(Presented by the Secretariat)

SUMMARY

This paper presents a detailed AMHS readiness status for supporting IWXXM Traffic of the States/Administrations in APAC Region as complimentary information of WP04 to address this issue.

1. INTRODUCTION

1.1 ICAO APAC Regional Office has been discussing and promoting the implementation of necessary infrastructure to support IWXXM exchange in the Region through APANPIRG and its contributory bodies. This paper summarizes the work done in the APAC Region to facilitate the IWXXM exchange over AMHS, and presents the AMHS readiness status for supporting IWXXM Traffic of the States/Administrations in APAC Region.

2. DISCUSSION

2.1 Since the adoptions of Amendments 77 and 79 to Annex 3, the APAC Region has been discussing in APANPIRG and its contributory bodies on promoting the implementation of AMHS and a proper infrastructure identified for the Region to facilitate the exchange of IWXXM. The following summarized the relevant Conclusions adopted in APANPIRG and its contributory bodies.

2.2 APANPIRG/28 discussed that to meet the minimum requirement for the exchange of IWXXM messages, the meeting urged States/Administrations to implement *Extended AMHS* or *Basic AMHS plus File Transfer Body Parts (FTBP) sub-set of Extended AMHS for Binary data exchange functional groups* as defined in Doc 9880 Part IIB section 3.4.1. Accordingly, the meeting adopted the following Conclusion:

Agenda Item 3.2

18-22/10/21

Conclusion APANPIRG/28/16: Upgrade AMHS to support IWXXM traffic	
What: That, In order to support the requirement to exchange MET information in IWXXM format, States/Administrations be urged to upgrade AMHS systems (AMHS server and User Agent) by November 2020 to either Extended AMHS or Basic ATS Message Handling Service plus File Transfer Body Parts sub-set of extended AMHS for Binary data exchange (FTBP) functional groups as defined in Doc 9880 Part IIB section 3.4.1.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: need to support IWXXM format data by AMHS	Follow-up: <input type="checkbox"/> Required from States
When: 30-Dec-17	Status: Adopted by PIRG
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:	

2.3 CNS SG/22 discussed the Draft Conclusion submitted by CRV OG/4 and discussed in ACSICG/5 that BBIS States/Administration were encouraged to commence the transition of AMHS to CRV network as early as possible to allow more BIS State/Administrations to establish connections over CRV. As such, the following Conclusion was adopted:

Conclusion CNS SG/22/4 (CRV OG/4/2) - ATN/BBIS States/Administration Use CRV for AFTN/AMHS Traffic	
What: That, States/Administrations with ATN/BBIS are urged to implement CRV network as early as possible, to provide AFTN/AMHS routing function for BIS Administrations.	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: to ensure compliance with ICAO Doc. 9896	Follow-up: <input checked="" type="checkbox"/> Required from States
When: 20-Jul-18	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:	

2.4 The APAC State Letter Ref.: *T 8/3.5 & T 8/2.11– AP160/20 (CNS)*, provided at **Appendix A** to this paper, was sent to States/Administration in August 2020 as a reminder to upgrade the AMHS with FTBP and deploy AMHS connect to achieve a synchronized AMHS distribution mechanism to support MET information exchange using IWXXM in the APAC Region.

2.5 CNS SG/24 requested the MET SG and CNS SG to enhance mutual coordination and sharing outcomes of related survey and seminar/workshop, and the contributory body of MET SG (Meteorological Information Exchange Working Group (MET/IE WG)) to work collaboratively with ACSICG for a way forward in APAC region. This request was taken forward as CNS/SG ACTION ITEM 24-3.

2.6 To address this ACTION ITEM 24-3, two papers were prepared in ACSICG/8 in June 2021. WP/08 *Summary on ICAO actions to facilitate IWXXM Exchange over AMHS in APAC Region* was prepared to summarize the work done in this aspect. In addition, IP/07 *Relevant Outcomes from ICAO APAC 19th Meeting of the Meteorological Information Exchange Working Group (MET/IE*

WG/19) was also presented in ACSICG/8 to review the the latest developments of an online registry for APAC States to share information on the IWXXM-exchange capabilities of their ROBEX centres and the relevant AMHS addresses supporting the exchange of IWXXM messages and is updating regional guidance in the APAC ROBEX Handbook to include a link to the online registry. MET/IE WG/19 also requested States to use the online registry to provide up to date information on AMHS-capability of ROBEX centres to support IWXXM exchange via a Draft Conclusion to be endorsed under MET/SG/25.

2.7 As of ACSICG/8, there were **12** States/Administrations provided their status on AMHS readiness and experience for supporting IWXXM Traffic with details provided at **Appendix D to WP/04** of this meeting, and out of the **20** States/Administrations in APAC Region which completed the AMHS implementation per the report from the ATS Messaging Management Centre (AMC) as of July 2020. Although there has been a significant increase on the AMHS readiness for supporting IWXXM Traffic, the reporting gap as well as the slow progress on the reporting were still identified, States/Administrations are urged to inform ICAO APAC Regional Office on their readiness and implementation progress/plan of AMHS with FTBP as soon as possible.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this paper;
- b) observe the actions taken by the ICAO APAC Regional Office on facilitating IWXXM Exchange over AMHS in the Region;
- c) review and update the *AMHS Readiness Report for Supporting IWXXM Traffic* table provided in **Appendix D to WP/04**;
- d) discuss any relevant matter as appropriate.



International
Civil Aviation
Organization

Organisation
de l'aviation civile
internationale

Organización
de Aviación Civil
Internacional

Международная
организация
гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: T 8/3.5 & T 8/2.11– AP160/20 (CNS)

6 August 2020

Subject: Reminder for implementation of ATS Message
Handling System (AMHS) in APAC Region by 2020

Action Required: Note the ACSICG/7 outcome and implement/upgrade
AMHS to support IWXXM traffic in APAC by November 2020

Dear Sir/Madam,

I wish to remind your Administration about the requirement to support ICAO Meteorological Information Exchange Model (IWXXM) which would become a standard applicable from November 2020 by AMHS.

The Twenty Eighth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/28) in September 2017 through *Conclusion APANPIRG/28/16: Upgrade AMHS to support IWXXM traffic* urged all APAC States/Administrations to upgrade AMHS systems (AMHS server and User Agent) by November 2020 to either Extended AMHS or Basic ATS Message Handling Service plus File Transfer Body Parts sub-set of extended AMHS for Binary data exchange (FTBP) functional groups as defined in Doc 9880 Part IIB section 3.4.1.

The Seventh Meeting of the Aeronautical Communications Services (ACS) Implementation Co-ordination Group (ACSICG/7) of APANPIRG was held from 21 to 23 July 2020 via video conferencing. A number of States/Administrations shared the AMHS readiness and experience for supporting IWXXM Traffic. As of July 2020, there are twenty States/Administrations in APAC Region completed the AMHS implementation, per report from the ATS Messaging Management Centre (AMC). The ACSICG/7 concludes that some of them are able to support IWXXM using their respective AMHS with FTBP capability.

In view of the foregoing, you are requested to take required actions and arrangements to implement or upgrade the AMHS with FTBP function as soon as possible, and should deploy AMHS connection with a minimum of 64Kbps bandwidth, to achieve synchronized AMHS distribution mechanism to support MET information exchange using IWXXM in the APAC Region by November of 2020.

2/...

Asia and Pacific Office
252/1 Vibhavadi Rangsit Road
Chatuchak
Bangkok 10900
Thailand

Postal Address:
P.O. Box 11
Samyae Ladprao
Bangkok 10901
Thailand

Tel.: +66 (2) 537-8189
Fax: +66 (2) 537-8199

www.icao.int/apac
E-mail: apac@icao.int

The CNS SG/24 to be held on 30 November 2020, will review the AMHS readiness status for supporting IWXXM Traffic of the States/Administrations.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Arun Mishra', written in a cursive style.

Arun Mishra
Regional Director