



ICAO

International Civil Aviation Organization

Eleventh Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/11)

Bangkok, Thailand, 19 - 22 March 2024

Agenda Item 7: * Readiness of AMHS to support IWXXM

REVIEW OF ASIA AND PACIFIC REGION IWXXM IMPLEMENTATION STATUS/ READINESS

(Presented by Singapore)

SUMMARY

This paper recapitulates the timeline/ roadmap and Air Traffic Service (ATS) Message Handling System (AMHS) requirements for the implementation of ICAO Meteorological Information Exchange Model (IWXXM) for the Asia and Pacific (APAC) Region. This paper also presents possible challenges faced by States/ Administrations to implement IWXXM and to review IWXXM implement status to gauge the readiness of APAC Region for full implementation of IWXXM data exchange.

1. INTRODUCTION

1.1 To meet the requirements of Amendment 79 to Annex 3, IWXXM Version 3 shall be exchanged on operational networks from 20 July 2020. Due to the pandemic, ICAO postponed the exchange of IWXXM data to 5 November 2021.

1.2 To date, many APAC States/ Administrations have made good progress and started exchanging IWXXM data over AMHS operational networks. While traditional alphanumeric code (TAC) data are still being exchanged, in parallel with IWXXM data.

2. DISCUSSION

Timeline and System Requirements

2.1 Currently, the distribution of TAC data internationally is proposed to be no longer required from 2029. Hence, APAC Region is required for full implementation of IWXXM data exchange by 2029.

2.2 To meet the 2029 timeline, the implementation of IWXXM by States/ Administrations requires:

- a) AMHS with File Transfer Body Part (FTBP) and Interpersonal Messages Heading Extension (IHE) which can support exchange of AMHS message size of minimum 2MB and maximum 4MB for FTBP; and

b) IWXXM data generated at source for best implementation.

2.3 In addition to the AMHS requirements mentioned in paragraph 2.2 (a), System Wide Information Management (SWIM) with AMQP/ HTTP communications protocols is envisaged for the exchange of IWXXM data from 2025 to 2030.

2.4 The exchange of IWXXM will then migrate fully into SWIM architecture beyond 2031.

Challenges Faced

2.5 To date, some APAC States/ Administrations are still in progress to implement IWXXM data exchange and some of the challenges faced are:

a) States/ Administrations are waiting for system replacement cycle instead of upgrading existing systems for IWXXM data exchange; and

b) develop benefit realisation plan to monitor, track and manage the collective set of benefits associated with IWXXM implementation.

Review of IWXXM Implementation Status/ Readiness

2.6 To review IWXXM implement status to gauge the readiness of APAC Region for full implementation of IWXXM data exchange, States/ Administrations are invited to update the following status:

a) AMHS with FTBP and IHE readiness date; and

b) IWXXM data generated at source or converted from source readiness date.

2.7 In view of paragraph 2.6, the following Draft Conclusion is proposed

Draft Conclusion ACSICG/11/XX - Review of APAC Region IWXXM Implementation Status/ Readiness		
What:	States/ Administrations update the following status: (a) AMHS with FTBP and IHE readiness date; and (b) IWXXM data generated at source or converted from source readiness date.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input type="checkbox"/> Ops/Technical
Why:	As per Amendment 79 to Annex 3, States/ Administrations are required to implement IWXXM data exchange by 5 November 2021. As some States/ Administrations are still working on IWXXM implementation, it is timely to review the status/ readiness of IWXXM implementation in the Asia and Pacific region because the distribution of TAC data internationally is proposed to be no longer required from 2029 and APAC Region would need to transit to full IWXXM data exchange.	Follow-up: <input checked="" type="checkbox"/> Required from States
When:	22-Mar-24	Status: Draft to be adopted by PIRG
Who:	<input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" 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;
- b) endorse the **Draft Conclusion** in paragraph 2.7; and
- c) discuss any relevant matter as appropriate.
