



ICAO

*International Civil Aviation Organization***THE THIRTEEN MEETING OF AERONAUTICAL
COMMUNICATION SYSTEM IMPLEMENTATION
COORDINATION GROUP (ACSICG/13)**

Nadi, Fiji, 21 - 24 April 2026

Agenda Item 5: AMHS to SWIM Transition Roadmap

5.4 Consideration of AMHS readiness as part of IWXXM implementation

INDONESIA AMHS UPGRADE TO SUPPORT IWXXM

(Presented by Indonesia)

SUMMARY

This paper presents the progress of Indonesia in upgrading its AMHS to support the ROC Jakarta in exchanging IWXXM with RODBs and designated ROCs.

1. INTRODUCTION

1.1 The exchange of meteorological information in IWXXM format became a standard in November 2020, as indicated in Amendment 78 to ICAO Annex 3 and in accordance with the applicability of Amendment 79-82 to ICAO Annex 3.

1.2 Indonesia has been developing an in-house IWXXM generator since 2019, currently producing IWXXM version 2025-2. However, these products could not be disseminated to RODBs due to incompatibility with Indonesia's current AMHS.

1.3 Indonesia upgrade the AMHS system as part of modernization ATM Automation System.

2. DISCUSSION

2.1 The AMHS must be upgraded to support IWXXM exchange for ROC Jakarta with RODBs and designated ROCs. The current AMHS does not allow the required file sizes for IWXXM. The AMHS must support files up to 4.0 MB (including FTBP) for ATS extended service when exchanging IWXXM messages size including FTBP for ATS extended service in the exchange of IWXXM messages.

2.2 In mitigating the issue with Indonesia's AMHS, during the ICAO monitoring period in November 2025, Indonesia collaborated with the Hong Kong Observatory (HKO), successfully routing the data submissions through the HKO's AMHS network.

2.3 Indonesia's AMHS upgrade is ongoing progress of installation and expected to be fully implemented in June 2026.

2.4 AirNav Indonesia (ANSP) and BMKG (Meteorological Agency) will schedule a trial phase to send message in IWXXM format to ensure the capability of the new AMHS system. The following checklist will be required to be full filled to ensure the capability of IWXXM messages format distribution;

	Descriptions	Activity	Target Scheduled
(a)	Preparation and System Requirements:	Stakeholders should be informed and involved, and ICAO guidelines reviewed. Verify AMHS supports File Transfer Body Part (FTBP) and compatibility with IWXXM data formats;	Q3 2026
(b)	Network Configuration:	Ensure network settings support IWXXM data exchange, secure and reliable connections, and P1 and P3 AMHS connections with neighbouring COM Centres (Singapore Com Center)	Q3 2026
(c)	Testing and Documentation:	Conduct initial tests with internal and external stakeholders, verify data integrity, maintain detailed records, and document issues and resolutions	Q4 2026
(d)	IWXXM Data Generation and Quality Control:	Gather and format meteorological data according to IWXXM schema, validate XML, ensure compliance, and perform quality checks and interoperability tests.	Q4 2026

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) acknowledge Indonesia’s progress in upgrading its AMHS to support IWXXM exchange; and
- c) discuss any relevant matter as appropriate
