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ICAO

Thirteenth Meeting of the Air Traffic Management Sub-Group (ATM/SG/13) of APANPIRG

Singapore, 25 – 29 August 2025

Agenda Item 6: ATM Coordination (Meetings, Route Development, Contingency Planning)

**ENHANCING OPERATIONAL CONTINUITY: JAKARTA ACC AMHS DISRUPTION,
MITIGATION MEASURES, AND PATH FORWARD**

(Presented by Indonesia)

SUMMARY

This paper presents information regarding a recent disruption of the Automatic Message Handling Service (AMHS) in Jakarta ACC, outlines the immediate mitigation measures taken by Indonesia in coordination with regional ATS units, and describes ongoing efforts to enhance system resilience through a secondary international AMHS connection.

1. INTRODUCTION

1.1 The Automatic Message Handling Service (AMHS) is a critical infrastructure component for the exchange of ATS messages – such as flight plans (FPL) and related ATS messages – as well as ATS Inter-facility Data Communication (AIDC) between Area Control Centers (ACCs).

1.2 Between April and mid-May 2025, Jakarta ACC experienced several instances of unstable performance in its primary AMHS system, affecting the international exchange of ATS messages.

2. DISCUSSION

Immediate Impact and Risk Mitigation

2.1 The disruption had the potential to impact coordination, flight planning, and the exchange of safety-critical information between Jakarta ACC and adjacent FIRs.

2.2 Despite the disruption, no Large Height Deviation (LHD) or operational incident occurred, due to the effectiveness of contingency procedures and regional cooperation.

2.3 As part of its contingency plan, Indonesia promptly established coordination with adjacent ATS units. Close coordination with Singapore ACC and Brisbane ACC ensured continued distribution of ATS messages through an alternate method (email-based transmission).

Regional Collaboration

2.4 Indonesia appreciates the support of Singapore and Australia during the contingency period, which demonstrated the importance of regional interoperability and preparedness in the event of system disruptions.

2.5 This collaboration underscores the value of cross-border coordination agreements, previously established through ICAO regional initiatives.

2.6 Indonesia plans to update the letter of coordination agreement with Singapore and Brisbane to include provisions for handling system disruptions and high-latency message distribution.

System Enhancement: Establishing Redundancy

2.7 To enhance system resilience and reduce the risk of single point of failure, Indonesia is establishing a secondary international AMHS/AMSC connection via Ujung Pandang ACC. This link will serve as a redundant route for international messaging. In the short-term, it will be used for AIDC message exchange to reduce the workload on Jakarta ACC's AMHS.

2.8 The dual international connection configuration will enable operational continuity in the event of a future disruption of Jakarta ACC's primary AMHS system.

2.9 The implementation aligns with the ICAO Asia/Pacific Regional Air Navigation Plan and contributes to the Global Air Navigation Plan (GANP) objectives, particularly in ensuring seamless information management.

Conclusion

2.10 The AMHS disruption at Jakarta ACC highlighted the critical need for robust contingency measures and effective cross-border cooperation.

2.11 Timely mitigation, regional coordination, and the absence of safety incidents such as LHD reflect the effective cooperation among regional ATS units and the maturity of regional safety management practices.

2.12 The establishment of a secondary AMHS connection via Ujung Pandang ACC represents a strategic enhancement to Indonesia's ATM infrastructure, contributing to the safety and efficiency of international air navigation in the region.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) consider this information when updating the Letter of Coordination Agreement between adjacent units, particularly in relation to anticipating handling system disruptions and high-latency message distribution; and
- c) discuss any relevant matters as appropriate.

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