

**ICAO***International Civil Aviation Organization***Twenty Fourth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/24) of
APANPIRG**

Web-conference, 30 November – 4 December 2020

Agenda Item 8: Review and updates

8.2 National ANP and elements related to CNS

UPDATE OF ADS-B & AIDC IMPLEMENTATION IN INDONESIA

(Presented by Indonesia)

SUMMARY

This paper provides information relating to the ADS-B implementation progress and update of the AIDC implementation activities in Indonesia.

1. INTRODUCTION

1.1 The 11th Air Navigation Conference endorsed the use of ADS-B as an enabler of the global air traffic management concept and encouraged States to support cost-effective early implementation of ADS-B applications.

1.2 In accordance with the Conclusion APANPIRG/30/15 – Revised Surveillance for APAC Region, member States are encouraged to maximize the use of ADS-B on major air routes and in terminal areas, giving consideration to the mandatory carriage of ADS-B Out and use of ADS-B for ATC separation service.

1.3 As an ICAO member state, Indonesia will continue to undertake the ADS-B implementation program in order to harmonize their navigation services among FIRs and enhance safety in the region.

2. DISCUSSION**ADS-B Implementation**

2.1 Started with 30 ADS-B ground stations in 2007, Indonesia has conducted some activities relating to the ADS-B implementation among others:

- ADS-B implementation for Situational Awareness (Tier-2), started on 18th September 2014;
- ADS-B implementation for ATS Surveillance Separation (Tier-1) between FL290 up to FL460, started on 25th June 2015;

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- The expansion of ADS-B implementation area for ATS Surveillance Separation (Tier-1) between Ground up to FL600, started on 20th July 2017;
- ADS-B implementation with the mandatory carriage of ADS-B onboard at FL290 up to FL600, and remain optional carriage of ADS-B onboard for flight below FL290, started on 1st January 2018;

2.2 After going through the several stages of implementation, Indonesia has implemented ADS-B mandate (Tier-1) for all transport category aircraft at all level in particular airspace, **since 23 April 2020**, in accordance with the AIRAC AIP Amendment number 89 date 27th February 2020. Area of ADS-B implementation was determined as follows:

- Class A airspace between FL245 – FL600;
- Class B, C, D, and E airspace between Ground to FL245, at 9 control zones and terminals: Bali, Jakarta, Palembang, Pekanbaru, Pontianak, Surabaya, Tanjungpinang, Ujung Pandang, and Yogyakarta.

2.3 In general, the ADS-B implementation runs well. At the beginning of the ADS-B mandate implementation, the population of ADS-B equipped aircraft is 85%. Nowadays, the population of ADS-B equipped aircraft increase to 87% from all transport category aircraft. Aircraft operators which have the transport category aircraft, are urged to meet the ADS-B equipage requirement.

2.4 In addition, the new ADS-B ground stations are deployed to cover the eastern part of Indonesia and the Indonesian FIR boundary. Those additional are consists of 7 ADS-B in the eastern part of Indonesia (Papua Island area), and 5 ADS-B will be installed at the boundary with Manila FIR, Colombo FIR, Port Moresby FIR, Singapore FIR and Kota Kinabalu FIR.

AIDC Implementation

2.5 The AIDC implementation status in Indonesia, especially Ujung Pandang ACC, until end of Q2-2020 as follows:

- with Brisbane ACC: **Implemented**
- with Manila: **Operational Trial**, target implementation in December 2020
- with Port Moresby ACC: **Success Testing**, target implementation in January 2021
- with Kota Kinabalu ACC: **Success Testing**, target implementation in 1Q-2021
- with Oakland ARTCC: **Success Testing**, target implementation in 1Q-2021
- with Jakarta ACC: Planned, target implementation in 2023.

2.6 Recently, Ujung Pandang ACC and **Manila ACC** have signed and agreed to implement AIDC, and will be **effective on 3 December 2020**. Ujung Pandang ACC and **Port Moresby ACC** have also been conducting the operational since **8th October 2020**, and planned to implement in January 2021.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) discuss any relevant matter as appropriate.
