



International Civil Aviation Organization

The Twenty-Second Meeting of the Southeast Asia ATM Coordination Group (SEACG/22)

Bangkok, Thailand, 09-12 March 2015

Agenda Item 4: Implementation of CNS/ATM Systems

ADS-B IMPLEMENTATION WITHIN INDONESIA FIRS

(Presented by INDONESIA)

SUMMARY

This paper presents the progress on implementation of ADS-B to enhance the safety and improve the ATS service within Indonesia FIRs

1. INTRODUCTION

1.1 To enhance the safety and to improve the safety within Jakarta FIR by implement the surveillance spacing using ADS-B

1.2 Since 2006, Indonesia already installed 31 (thirty one) ADS-B ground station throughout Indonesia territory.

2. DISCUSSION

2.1 **Figures 1 and 2** show ADS-B ground stations installation in Indonesia at December 2009 (27 ground stations) and July 2011 (31 ground stations).

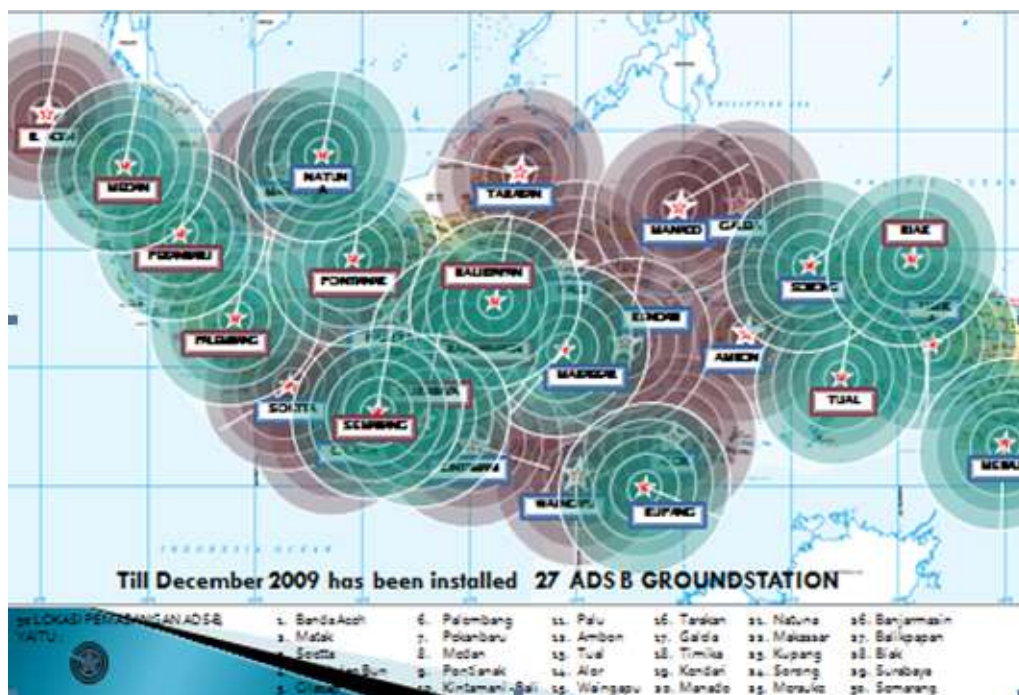


Figure 1: Indonesia ADS-B Ground Stations December 2009



Figure 2: Indonesia ADS-B Ground Stations July 2011

2.2 The program of installing and implementing ADS-B had been starting since 2006 and will fully implement in 2015, the steps of implementation as follows, as per AIP Supplement No. 10/14 date 24 JUL 2014 with effective date of 18 SEP 2014:

- i. Tier-2 operation, started 18 Sept 2014, the use of ADS-B as a Situation Awareness only within Jakarta and Ujung Pandang FIR on F290 – F460
- ii. Tier-1 operation will in force on 25 JUN 2015 19.00 UTC as ATS surveillance Separation within Jakarta and Ujung Pandang FIR on F245 – F460 within Radar and/or ADS-B coverage with operational availability of 99,5%.

2.3 Separation Concept on implementation is using separation of 10 NM between:

- ADS-B targets
- ADS-B + Radar targets (merge)
- ADS-B targets and Radar targets
- ADS-B + Radar targets(merge) and Radar targets
- ADS-B + Radar targets (merge) and ADS-B + Radar targets (merge)

2.3 Procedural Separation will be applied when involving non surveillance aircraft.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

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

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