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**AUTOMATIC DEPENDENT SURVEILLANCE BROADCAST (ADS-B)
IMPLEMENTATION IN INDONESIA FOR SITUATIONAL AWARENESS
(Tier-2)**

1. INTRODUCTION

- 1.1 On September 24, 2008, the DGCA issued a Circular Letter number AU.6104/DKP.1989/2008 regarding implementation of Automatic Dependent Surveillance (ADS) in the Indonesia region. The Circular stated that in order to follow the letter of ICAO Regional Office number : T.8/10/21 : APO43/08 (CNS) dated 2 April 2008 and planned by DGCA to implement ADS-B throughout the Indonesian airspace in stages, which is expected that all parties should start preparing for ADS-B Implementation, especially regarding to the readiness of aircraft, Pilot Training and Human Resources associated with the operation of ADS-B technology.
- 1.2 DGCA has installed ADS-B Ground station facilities at 31 locations covering most of the Indonesian airspace and it is integrated with ATC Automation System in Jakarta Air Traffic Service Center (JATSC) for Jakarta FIR and Makassar Air Traffic Service Center (MATSC) for Ujung Pandang FIR.

2. IMPLEMENTATION OF OPERATION

- 2.1 Implementation of ADS-B in Indonesia for **Situational Awareness** by ATC will be effective on 18 September 2014 at 19.00 UTC until 25 June 2015.
- 2.2 ATC will continue to provide radar derived separation within existing radar coverage area, and non-surveillance separation outside radar coverage including

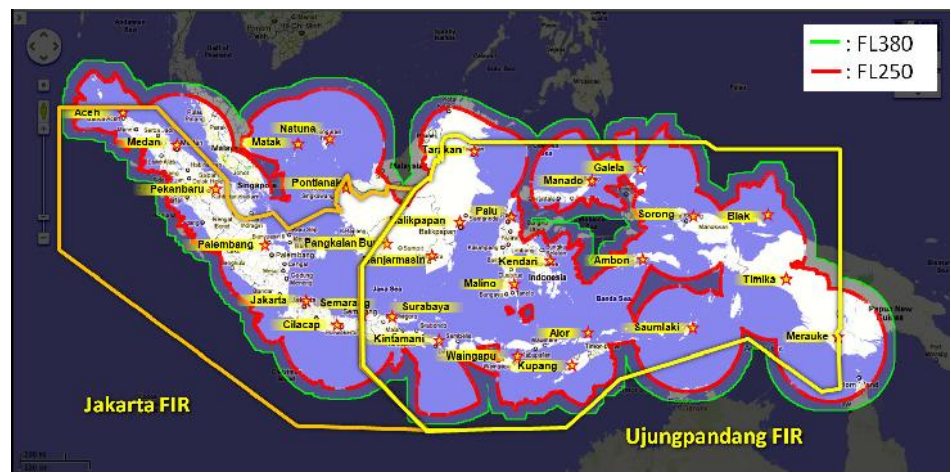
areas where ADS-B surveillance is available. ATC may use ADS-B data in monitoring non-surveillance separation standards between aircraft.

- 2.3 In accordance with ATS surveillance separation, pilots will be notified when their aircraft is identified by radar or has been verified by ADS-B. Position reports will not be required when identified by either ADS-B or radar, unless required by ATC.
- 2.4 In conjunction with all stakeholders, DGCA will evaluate the result of the situational awareness periode for ADS-B to ensure a safe and effective transition to the operational use of ADS-B in ATS surveillance separation.
- 2.5 Implementation of Automatic Dependent Surveillance Broadcast (ADS-B) in Indonesia for **ATS Surveillance Separation** will be effective on 25 June 2015 at 19.00 UTC.

3 REQUIREMENT FOR ADS-B DATA TRANSMISSION

- 3.1 In order to implement ADS-B equipment, DGCA in conjunction with stakeholders will determine all technical standards related with ICAO documents and national regulations.
- 3.2 When DGCA or AirNav Indonesia detect aircraft ADS-B transmission that appearing to be incorrect or non compliant, the aircraft operators will be notified.
- 3.3 The aircraft affected by this rule will be all those Indonesia and foreign registered aircraft that intend to operate within Indonesian airspace at FL290 and above.
- 3.4 The regulatory changes effectively establish mandatory aircraft fitment of ADS-B avionics equipment for the operation of any aircraft in airspace at FL290 and above after the compliance date of 25 June 2015. ADS-B equipage for aircraft operations below FL290 will remain voluntary, however ADS-B service benefits will be available to all equipped aircraft where coverage and display to ATC is available.
- 3.5 Until the 25 June 2015, carriage of ADS-B equipment remains voluntary and the ANSP's (Airnav Indonesia) present mixed mode of ATS surveillance separation, with some aircraft equipped and some not equipped, will remain.

4. ADS-B Coverage



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