



International Civil Aviation Organization

**THE NINTH MEETING OF THE SOUTHEAST ASIA AND BAY OF BENGAL
SUB-REGIONAL ADS-B IMPLEMENTATION WORKING GROUP
(SEA/BOB ADS-B WG/9)**

Beijing, China, 30 October - 1 November 2013

Agenda Item 3: Review of States activities and ADS-B Implementation Plan

ADS-B IMPLEMENTATION PLAN IN MALAYSIA

(Presented by DCA Malaysia)

SUMMARY

This paper presents ADS-B implementation plan in Malaysia.

1. INTRODUCTION

1.1 As an Air Navigation Service Provider in Malaysia, DCA Malaysia is planning to upgrade the current air traffic management procedural services into ADS-B surveillance services on the specific routes in the area with no radar coverage on the Western part of Malaysia FIR (exclusive airspace).

1.2 To achieve the above objectives, the following items will be implemented in stages:

1.2.1 Installation of ADS-B at two ground stations in KL FIR

1.2.2 Data sharing with neighboring country.

1.2.3 Requirement for fitment of on-board equipment

2. DISCUSSION

2.1 At this moment, Western parts of the KL FIR routes are covered with surveillance radar coverage and there is small portion of area with no radar is covered by ADS-C surveillance systems. Due to that, Malaysia is providing Procedural Services with Reduced Horizontal Separation (RHS) on opportunity basis in this area.

2.2 Taking into consideration the increasing volume of traffics and safety aspects in Malaysia airspace, DCA Malaysia is planning to upgrade the current procedural services into ADS-B surveillance services on the specific routes as following:

- 2.2.1 P574
- 2.2.2 N571
- 2.2.3 L510
- 2.2.4 P628
- 2.2.5 P627
- 2.2.6 L645




2.3 To fill the gap of the area with no radar coverage and at the same time to enhance airspace situational awareness for the Air Traffic Controller, DCA Malaysia will install ADS-B as the best cost-effective solution at two proposed radar stations as follows:

- 2.3.1 Pulau Langkawi
- 2.3.2 Genting Highland

2.4 During the testing phase of the implementation of the ADS-B system, DCA Malaysia will proceed with a plan to make an agreement with neighboring countries for Data sharing and agreement.

2.5 Upon successful installation, commissions and verification of the ADS-B systems, DCA will issue the requirement for fitment of on-board ADS-B equipment to the airlines/operators/aircraft flying Westbound on the above-mentioned routes/exclusive airspace.

2.6 The Malaysia ADS-B Implementation Plan/Schedule are as following:

No	Program	2014	2015	2016	2017	2018
1	Installation of ADS-B systems at two stations					
2	Data Sharing with neighboring country					
3	Requirement for fitment of On-Board Equipment					
4	Full implementation of ADS-B Service at specific routes/Exclusive Airspace					□

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the information contained in this paper.
