



*International Civil Aviation Organization*

**SIXTH MEETING OF THE SOUTHEAST ASIA  
SUB-REGIONAL ADS-B IMPLEMENTATION  
WORKING GROUP (SEA ADS-B WG/6)**



Singapore, 24 - 25 February 2011.

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**Agenda Item 3: Review of the Terms of Reference**

**REVIEW OF TERMS OF REFERENCE OF THE  
SEA ADS-B WORKING GROUP**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the TOR of the working group for review by the Meeting.

**1. INTRODUCTION**

1.1 APANPIRG/18 under Conclusion 18/38 agreed to the establishment of a Sub-regional ADS-B implementation Working Group in the South-East Asia area (SEA ADS-B WG) in 2007 to develop the terms of cooperation and an implementation plan for near-term ADS-B applications in the sub-region. The outcome of the ADS-B Working Group will report to APANPIRG through the ADS-B Study and Implementation Task Force.

**2. DISCUSSION**

2.1 The SEA ADS-B WG/1 meeting developed Terms of Reference for the working group based on a proposal made by Singapore. The seventh meeting of ADS-B SITF held in early April 2008 in China noted the progress made by the SEA ADS-B Working Group. While reviewing the achievements of the 1<sup>st</sup> and 2<sup>nd</sup> meeting of the Working Group, the Task Force meeting noted that Laos and Cambodia are not currently participating in the task force and working group meeting. It was suggested to invite these countries as well as Brunei for the next working group meeting to explore possibilities of collaboration.

2.2 The SEA ADS-B WG/3 meeting reviewed the Terms of Reference of the SEA ADS-B Working Group and agreed to revise the TOR to include Cambodia and CANSO as members of the working group. The revised TOR includes "Coordination for implementation of the plan" as sub-paragraph c). In addition to the ADS-B ground stations, the requirement for provision of VHF radio communication service had been also identified and included in the TOR.

2.3 The SEA ADS-B WG/4 and WG/5 meeting reviewed the TOR and considered it broad enough as it stands. The meeting did not identify need to further amend the TOR.

2.4 Recognizing that the area of interest to the working group for sharing ADS-B surveillance data is not only limited for air space between Australia and Singapore, South East Asia but also cover most part of South China Sea area, the working group agreed to invite other States that have interest to participate in the future meetings of the working group. The meeting agreed that Brunei Darussalam as member of the working group. The secretariat was requested to invite China and Hong Kong China for the future meetings of the working group.

2.5 At the SEA ADS-B WG/5 meeting, Hong Kong China informed the meeting that Hong Kong China will confirm later its readiness for joining the working group as a member. While reviewing the TOR, the meeting also discussed the need for early consideration of eastern part of Bay of Bengal for ADS-B data sharing. This would require India and Myanmar to join the working group. The meeting was reminded that ad-hoc working group of ADS-B SITF for BOB and SA has been discussing and identifying the requirement and potential locations for optimum coverage.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to note the information provided in this paper and review the TOR of the Working Group provided in the Attachment to this paper.

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## TERMS OF REFERENCE

### SOUTHEAST ASIA SUB-REGIONAL ADS-B IMPLEMENTATION WORKING GROUP

#### **Terms of Reference**

APANPIRG18 Conclusion 18/38 agreed to the establishment of a sub-regional ADS-B implementation Working Group in the South-East Asia area (SEA ADS-B WG) by the end 2007 to develop the *terms of cooperation* and an *implementation plan* for near-term ADS-B applications in the sub-region.

The outcome of the ADS-B Working Group will report to APANPIRG through the ADS-B Study and Implementation Task Force.

The SEA ADS-B WG shall

(a) Develop **Terms of Co-operation** which will include :

- establishing model documents for possible use by States when :
  - Agreeing to share ADS-B data, and DCPC (such as VHF radio voice communication) capability between adjoining States for various ADS-B applications (including a sample letter of agreement); or
  - Establishing ADS-B avionics fitment mandates
- identifying optimum coverage for ADS-B ground stations and associated VHF radio voice communication in the sub-regional FIR boundary areas.

(b) Develop an **implementation plan** for near term ADS-B application which will delivery efficient airspace and increased safety on a regional basis that include :

- schedule and priority dates to bring into effect ADS-B based services taking into account;
  - Timing of any equipage mandates.
  - Timing of any ATC automation upgrades to support ADS-B.
  - Timing of commissioning of any ADS-B data and associated VHF radio voice communication facilities.
- consideration of major traffic flows

(c) Coordination for implementation of the plan

**Composition:** The Group will be composed of experts nominated by States in the Sub-region including: Australia, Brunei Darussalam Cambodia, Indonesia, Malaysia, Philippines, Singapore, Thailand, Vietnam, IATA and CANSO.

**Reporting:** The Group will present its report to ADS-B Study and Implementation Task Force.