



*International Civil Aviation Organization*



**THE TENTH MEETING OF THE SOUTH EAST  
ASIA AND BAY OF BENGAL SUB-REGIONAL  
ADS-B IMPLEMENTATION WORKING GROUP  
(SEA/BOB ADS-B WG/10)**

Singapore, 11 - 13 November 2014

---

**Agenda Item 5: Review of ToR of the SEA/BOB ADS-B Working Group**

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

(Presented by the Secretariat)

**SUMMARY**

This paper presents the Terms of Reference 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.

1.2 APANPIRG/22 (5-9 September 2011) reviewed the proposal for amendment of the ToR and Name of the SEA ADS-B Implementation Working Group. The meeting noted the CNS/MET SG/15 meeting (July 2011) had reviewed the outcome of the Tenth Meeting of ADS-B Task Force and the Sixth meeting of the South East Asia ADS-B Implementation Working Group (24-25 February 2011 in Singapore) and endorsed the proposed changes to the ToR.

**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

2.2 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.

2.3 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.

#### Bay of Bengal/South Asia Sub-regional Project

2.4 The CNS/MET SG/15 meeting noted an initial proposal for the deployment of ADS-B ground stations in the Bay of Bengal and various developments that have taken place regarding ADS-B implementation in the States concerned.

2.5 With respect to the Work Programme of the SEA ADS-B working group to cover Bay of Bengal area, APANPIRG/22 meeting considered the need to invite States in the Bay of Bengal area to participate in the working group meeting on a regular basis and agreed to the proposal to change the name of the Working Group from SEA ADS-B Working Group to South East Asia and Bay of Bengal ADS-B Implementation Working Group (SEA/BOB ADS-B WG) as proposed by the ADS-B SITF and adopted following Decision.

#### **Decision 22/34 – Name and Terms of Cooperation of ADS-B Implementation WG**

That, recognizing the need to expedite ADS-B implementation and surveillance data sharing in the Bay of Bengal area, the South East Asia Sub-regional ADS-B Implementation Working Group be renamed as “South East Asia and Bay of Bengal Sub-regional ADS-B Implementation Working Group”. Revised Terms of Cooperation and work programme based on the existing one for the SEA Sub-regional ADS-B Implementation Working Group be further developed by the new Working Group.

2.6 In accordance with above decision, the SEA/BOB ADS-B Working Group reviewed the TOR at its 7<sup>th</sup> meeting in Chennai India in November 2011 with editorial updates presented by the Secretariat. Considering that the new Major Traffic Flow AR-10 has been identified by the APANPIRG and there is a need to address surveillance enhancement in the area between Maldives and Sri Lanka/India including coordination between ACCs in several FIRs, the meeting agreed to include Maldives as member of the Working Group. In view of the foregoing, the meeting made following decision for adoption of the revised TOR.

#### **Decision 7/1 – Adoption of Revised Terms of Reference**

That, the Revised Terms of Reference (TOR) of the South East Asia and Bay of Bengal Sub-Regional ADS-B Implementation Working Group shown in **Appendix B** to the Report be adopted.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to

- a) note the information provided in this paper and review the current TOR.
- b) update work programme based on the ToR.

-----

---

## TERMS OF REFERENCE

### SOUTHEAST ASIA AND BAY OF BENGAL 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.

APANPIRG/22 Decision 22/34 agreed to rename the Southeast Asia Sub-regional ADS-B Implementation Working Group to “South East Asia and Bay of Bengal Sub-regional ADS-B Implementation Working Group” and tasked the new Working Group to develop a revised Terms of Cooperation and work programme in the sub-regions.

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

The SEA/BOB 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, Bangladesh, Brunei Darussalam, China, Hong Kong China Cambodia, India, Indonesia, Malaysia, Maldives, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam, IATA and CANSO.

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

-----