



International Civil Aviation Organization

**THE FOURTH MEETING OF ADS-B STUDY AND
IMPLEMENTATION TASK FORCE (ADS-B SITF/4)**

Nadi, Fiji, 26-28 October 2008.

Agenda Item 4: Review TOR, Subject/Tasks List and List of Action Items

TOR, SUBJECT/TASKS LIST AND LIST OF ACTION ITEMS

(Presented by the Secretariat)

SUMMARY

This paper presents the TOR, Subject/Tasks List and List of Action Items for review by this meeting.

1. INTRODUCTION

1.1 APANPIRG/14 held in August 2003 adopted draft Decision 14/23 formulated by the ADS-B SITF/1 and approved the Term of Reference of the Task Force as provided in the Attachment 1 to this paper.

1.2 APANPIRG/16 held in August 2005 approved the Subject/Tasks list of the ADS-B SITF under Decision 16/38. The meeting considered the need to continue its efforts in cost benefit study. The sub-regional based ADS-B implementation plan and project should be developed and issues emerged during the trial and implementation stages should be appropriately addressed in a harmonized manner. The exchanging information and experiences gained during the trial and implementation of ADS-B should be further encouraged. The approved Subject/Task list is provided at Attachment 2 to this paper.

1.3 The ADS-B SITF/3 reviewed and updated the list of action items to be taken by the Task Force members. The updated Action Items is provided at Attachment 3 to this paper.

2. ACTION BY THE MEETING

2.1 The meeting is invited to review the attached TOR, Subject/Tasks List and List of Action Items of the ADS-B SITF.

APANPIRG/14 held in August 2003 approved the following Term of Reference of the Task Force under Decision 14/23.

TOR of ADS-B STUDY AND IMPLEMENTATION TASK FORCE

TERMS OF REFERENCE

Complete an industry wide ADS-B cost/benefit study for the near term use of ADS-B throughout the ASIA/PAC region.

Develop an implementation plan for near term ADS-B applications in Asia Pacific including target dates taking into account available equipment standards and readiness of airspace users and ATS providers.

Note:

1. The Task Force, while undertaking the task, should take into account of the work being undertaken by OPLINK, SAS, SCRS and AC Panels with a view to avoid duplication.
2. The Task Force should report to the APANPIRG meeting to be held in 2004 and subsequent meetings.

SUBJECT TASK LIST OF THE ADS-B STUDY AND IMPLEMENTATION TASK FORCE

No.	Ref.	Task	Priority	Action Proposed/In Progress	Target
1	APANPIRG Concl.13/19 TOR	Subject: Selection of links for near term and long term Task: 1) Select near term link; 2) Select long term link.	A	1) SSR Mode S 1090 ES has been selected for the near term 2) Additional data links may be specified as necessary	Completed TBD
2	APANPIRG Concl.14/21	Subject: Guidance material for implementation of ADS-B in Asia and Pacific regions Task: Develop a guidance package	A	1) Sample Business case component; 2) Guidance package based on OPLINKP Concept of use and other ICAO Docs for ADS-B air-ground surveillance service.	2006 Completed
3	APANPIRG Concl. 14/21	Subject: Report of ADS-B problem. Task: Establish a problem reporting system	A	Develop a database and a form of report	Completed
4		Subject: Draft amendment proposal to SUPPs 7030 Regional Supplemental Procedures Task: Prepare a draft for consideration by ATM/AIS/SAR Sub Group of APANPIRG	B	Prepare a draft for amendment to Doc7030 for implementation of ADS-B in the Asia and Pacific regions pending separation criteria developed by relevant ICAO panel.	2005/Australia
5	APANPIRG Concl.14/21	Subject: ASIA/PAC ADS-B operational manual Task: Develop operational procedure manual for using ADS-B.	A	Develop a draft operational manual (include material on NOTAM and available manual data)	Completed

No.	Ref.	Task	Priority	Action Proposed/In Progress	Target
6	APANPIRG Concl. 14/21	Subject: Coordination between States at planning level Task: Coordination for timing of implementation and designate focal point of contact, points of contact for regulators, airframes & ground systems.	A	1) Develop an coordinated implementation plan by cities pairs; 2) Inform ICAO regional office names of designated focal point of contact.	2005/States concerned Completed
7	APANPIRG Concl. 14/21	Subject: Regional implementation plan Task: Develop a Regional implementation plan taking into account the individual national plans in accordance with a coordinated plan between cities pairs.	B	1) States present their ADS-B plans (including any necessary associated air ground voice communication) as WPs to ADS-B study and implementation Task Force. 2) Implementation date, sites being considered and plans for mandates (if any) should be specified. 3) Develop optimal regional plan based on State inputs	2005
8		Subject: Number of airframes fitted Task: Report on number of airframes fitted	A	Collect and report to the Task Force information on types, operators (numbers of each) and NUC (NIC/NAC/SIL)	2005/USA

UPDATED ACTION ITEMS

Serial No.	Work Items	Action to be taken by	Target date
1	Ascertain timing with FAA for the issue of DO260A based TSO	USA	Completed
2	Research maximum traffic densities now & expected in 2015	All members	2005
3	Report organizational policy on ADS-B data sharing with neighbors	All members	2005
4	Make available radar ADS-B comparison analyses	USA	2004
5	Distribute analyses on use of GPS TSO129 vs TSO145/6 avionics for ADS-B (Lee & Moody papers)	USA	2004
6	Prices: • GS prices (any ground station provider); • Communication and ATC automation costs (each State); • Big Aircraft & regional aircraft avionics prices; • Small GA aircraft avionics prices.	Industry All members IATA Australia	Completed Completed Completed Completed
7	Coordinate examination of sites for city pairs (existing route structure: aim for capacity increase): • Australia - Singapore • Hong Kong, China - Tokyo • Singapore - Delhi	Singapore Japan India	Continuing Continuing Continuing

Serial No.	Work Items	Action to be taken by	Target date
9	States are to provide information to support the APANPIRG Regional plan. This can be in the form of comments and additional required changes to incorporate ADS-B into the regional CNS/ATM plan including timing of national implementation into relevant tables of the Plan. Australia will collate these and present to the next Task Force Meeting.	ALL and Australia	Completed
10	Draft regional procedure to amend SUPPs –Doc7030 - for use of ADS-B from aircraft greater than 12 NM offshore.	Australia	March 2005
11	Rewrite the draft ADS-B operations Manual (AOM) and distribute it in December 2004 to TF members and is to be provided to OPLINK in FEB 05. Singapore Decision 1/7	New Zealand/ USA	Completed
12	Identify an existing ICAO definition of low-density airspace.	Thailand	Completed
13	Coordinate a recommendation to the next Task Force, recommending an ASTERIX format message set to be used for sharing of ADS-B data in the Asia Pacific region	Australia / USA	Completed
14	Prepare a Business case matrix or template (checklist) Singapore Decision 1/4	Singapore and New Zealand	Completed
15	Develop specific appropriate ADS-B implementation project proposals for which benefits and costs can be calculated. Singapore Decision 1/5	City Pair coordinators	March 2005
16	Continue a survey of fitment plans and will report at the next TF meeting.	IATA	Completed
17	Encourage airlines to attend the next Seminar.	IATA	Completed
18	IATA issue a reminder to directors of flight operations of its member airlines for the correct flight identification format required to enter into FMS or transponder.	IATA	Completed

Serial No.	Work Items	Action to be taken by	Target date
19	IATA will prepare and present a paper on study of using ADS-B technology in airspace in the North Asia. Singapore Decision 1/6	IATA	March 2005
20	Contact Eurocontrol (John Law) to find out the approach taken by Europe to avoid Flight ID entry problems during the deployment of Elementary surveillance in Europe and report at the next meeting.	Australia	Completed
21	Members to consider hosting the October 2005 meeting. The objective is to maximize the exposure of ADS-B to as large an ATM provider community as possible.	ALL	Completed