



*International Civil Aviation Organization*

**THE TENTH MEETING OF AUTOMATIC  
DEPENDENT SURVEILLANCE –  
BROADCAST (ADS-B) STUDY AND  
IMPLEMENTATION TASK FORCE  
(ADS-B SITF/10)**



Singapore, 26 -29 April 2011

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**Agenda Item 7:                   Development of Asia/Pacific Regional ADS-B implementation plan and  
sub-regional ADS-B implementation plan**

**RADIO FREQUENCIES FOR PROVISION OF VHF VOICE COMMUNICATIONS**

(Presented by Viet Nam and the Secretariat)

**SUMMARY**

This paper presents a draft Conclusion on coordination for radio frequencies for provision of VHF voice communications associated with ADS-B data sharing between adjacent States.

**1.       INTRODUCTION**

1.1               At Sixth meeting of SEA ADS-B working group, Viet Nam made a proposal that APANPIRG should further support the decision for States to provide VHF voice communications facilities for other States by developing a Conclusion. This would help in the domestic approval process for VHF radio frequency assignment. Australia and IATA supported Viet Nam's suggestion. Singapore suggested that the States finding difficulty with the domestic approval to share the constraints so that a draft Conclusion may be developed.

1.2               As result of discussion, the meeting requested Viet Nam and the Secretariat to develop draft proposal for discussion at the next meeting of ADS-B Study and Implementation Task Force.

**2.       DISCUSSIONS**

2.1               The meeting may recall that APANPIRG/19 held in September 2008 urged States to support provision of VHF radio voice communication associated with ADS-B data sharing between

adjacent States. In order to enable radar like separation, ADS-B based surveillance service must be complemented by the Direct Controller Pilot Communication (DCPC) such as VHF radio voice communication. Without supporting communication infrastructure, the ADS-B based surveillance will provide minimal operational benefits to the air space users. APANPIRG/19 adopted the following Conclusion.

***Conclusion 19/38 - Support provision of VHF radio voice communication associated with ADS-B data sharing between adjacent States***

*That, States be urged to consider following regional policy on supporting provision of direct controller pilot communication capability associated with ADS-B data sharing between adjacent FIRs of States.*

*“In order to provide radar like separation services using ADS-B, it is necessary for the controllers to have direct controller pilot communication (DCPC). In some cases, to achieve radar like separation services it may be necessary for the States to provide VHF radio voice communication services for use by adjacent States.*

*It is therefore recommended that States capable to do so support provision of VHF radio voice communication services to adjacent States when this is required to support the delivery of ADS-B based separation services. Cost of such service provision shall be agreed between the States concerned.”*

2.2 The SEA ADS-B WG/6 meeting developed following initial considerations:

- Neighbouring states sharing ADS-B data, with supporting air-ground communication using VHF are requested to:
  - co-ordinate VHF radio frequencies assignments with the ICAO Regional Office; and
  - co-ordinate the VHF licence with the national radio regulator, as the service provider for the neighbouring State i.e: the host state ANSP holds the licence to allow it to provide the VHF communication service for the foreign state. [Note that the host state always has the capability to disable the transmitter in extraordinary circumstances].
- APANPIRG supports the provision of VHF communication services to neighbouring States to support ADS-B surveillance service to enhance flight safety and to improve operational efficiency.

2.3 Based on a draft Conclusion developed by the SEA ADS-B WG/6 meeting, revised text for a draft Conclusion is proposed as follows for consideration by this meeting:

**Draft Conclusion 10/xx – Coordinate for VHF for sharing Voice Communication Capability**

That, States be urged to support provision of VHF radio voice air/ground communication infrastructure to adjacent States; and

The States sharing ADS-B data and supporting provision of VHF Voice air-ground communication infrastructure to adjacent States should co-ordinate with ICAO regional Office and their national Telecommunication Authority (Radio Frequency regulator) for assignment of VHF radio frequencies to be used by the adjacent States.

**3. ACTION REQUIRED BY THE MEEETING**

3.1 The meeting is invited to review and endorse a draft Conclusion as presented in paragraph 2.3.

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