



# Regulator's Workshop on ADS-B Avionics Equipage Requirements

Agenda Item 1

## Objectives of the Workshop

Presented by the Secretariat

## APANPIRG Conclusion 20/51

- Conclusion 20/51 - Workshop on ADS-B OUT Equipage Requirement

That, ICAO be invited to organize a workshop on ADS-B OUT equipage requirement before May 2010 with assistance from Australia and USA.

(common understanding to publish equipage requirement for ADS-B OUT based service)

# Workshop Objectives

1. To inform APAC Regulators of the existing and proposed technical standards and national rules for aircraft ADS-B OUT avionics equipment
2. To establish the primary operational requirement (if any) of each State and APAC generally for the use of ADS-B in the decade to 2020.

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# Workshop Objectives (cont'd)

3. Noting APANPIRG Conclusion, for Regulators to define their State's intention in establishing:
  - a) ADS-B OUT fitment requirements for international aircraft fitment;
  - b) Proposed compliance timelines;
4. To agree the content of a draft rule that addresses the APAC operational requirements/compliance timings for ADS-B; and prepare an APAC rule template .

## REVIEW: Conclusion 19/37 – Revised Mandate Regional ADS-B Out Implementation

- States intending to implement ADS-B based surveillance service, be urged to
  - a) determine ADS-B OUT equipage mandates based upon the ability to provide ADS-B OUT separation services;
  - b) expedite the implementation of ADS-B OUT in accordance with the Regional Air Navigation Plan and the provision of separation services based on ADS-B OUT;
  - c) publish their equipage mandates as soon as possible, with a target publication date of no later than 2010 so that operators can plan ahead their forward purchasing and retrofit; and

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## Conclusion 19/37 – Revised Mandate Regional ADS-B Out Implementation

- d) choose a date after mid 2012 on which the ADS-B out equipage mandate will become effective in airspace served by ADS-B ground stations with sufficient transition period to enable fleet equipage.
- *Note: The implementation would require aircraft equipped with avionics compliant with either;*
  - 1) *Version 0 ES as specified in Annex 10, Volume IV, Chapter 3, Paragraph 3.1.2.8.6 (up to and including Amendment 82 to Annex 10) and Chapter 2 of the Technical Provisions for Mode S Services and Extended Squitter (ICAO Doc 9871) (Equivalent to DO260) to be used till at least 2020.*

**Or**
  - 2) *Version 1 ES as specified in Chapter 3 of the Technical Provisions for Mode S Services and Extended Squitter (ICAO Doc 9871) (Equivalent to DO260A)*

## Conclusion 20/54 - Regional ADS-B Equipage Requirement

- That, States be urged to issue ADS-B authorizations for the interim period 2010-2020 (or until requirements can be harmonized globally) in Non-Radar Areas (NRA) airspace based on:
  - AMC20-24 certification or
  - Approval by CASA Australia or
  - The requirements of the CASA Civil Aviation Order 20.18 Amendment (No. 1) 2009 and Advisory Circular AC21-45
- *Note: States that have not yet published regulations should implement necessary regulations that recognize that any one of the above requirements is acceptable and not specify an individual requirement*