



International Civil Aviation Organization

**THE NINTH MEETING OF AUTOMATIC
DEPENDENT SURVEILLANCE – BROADCAST
(ADS-B) STUDY AND IMPLEMENTATION
TASK FORCE (ADS-B SITF/9)**



Jakarta, Indonesia, 18 -19 August 2010

Agenda Item 4: Review the Terms of Reference and Subject/Task Lists
Task No 16: Sample mandate material defining ADS-B avionics including the positional data source including Task by 45th DGCA Conference

GUIDANCE MATERIAL DEFINING SAMPLE ADS-B AVIONICS MANDATE

(Presented by Australia)

SUMMARY

Task No 16 requires Australia to prepare guidance material on a sample ADS-B avionics mandate for the APAC Region.

This WP identifies four documentation sources that may be considered in the development of any template for a regulatory mandate.

It is the objective of the ADS-B Regulator's Workshop to develop a template for an APAC Region mandate and to present the outcome to the SITF Meeting. Australia has submitted WP /IP documentation for that purpose.

The intention is that the Workshop should focus on, and define, an appropriate APAC Region template. It is therefore not considered appropriate or necessary in this WP to attempt to make any proposals for an actual template for APAC application.

1. INTRODUCTION

1.1 ADS-B SITF Task No 16 is the preparation of a sample template for an aircraft ADS-B avionics mandate suitable for the APAC Region.

1.2 It is possible that the ADS-B Regulator's Workshop held on the 2 days preceding the SITF/9 Meeting may have developed a mandate template or sample material as that is a primary objective of the Workshop. If that is the case, this WP will not need further consideration.

2. DISCUSSION

2.1 There are three existing documentation sources presently available that may be referred to in the development of an ADS-B regulation template. In addition, it is possible that a fourth document, the US FAA's final rule for ADS-B fitment in certain classes of airspace, may also be available at the time of the SITF/9 Meeting as it is understood that its release is imminent.

2.2 **CASA Australia Civil Aviation Order.** At the time of preparation of this WP, it is believed that the only ADS-B mandate that has actually been issued in final regulatory application is the relevant Civil Aviation Order of the Australian Civil Aviation Safety Authority Australia. That is one source of material for consideration for use in forming a template. The Australian rule has been based on operations in a NRA environment but may also be satisfactory for a RAD environment in areas other than the USA or Europe. An explanation of the Australian Rule is contained in a WP prepared for the ADS-B Regulator's Workshop.

2.3 **Eurocontrol ENPRM/10-003A.** In April 2010, Eurocontrol issued its *ENPRM/10-003 Surveillance Performance and Interoperability (SPI) Requirements* under its Single European Sky Mandate on Surveillance. That document has been issued for formal consultation on the Draft Implementing Rules contained in the SPI. The ENPRM proposes a 2015 mandate for application in a RAD environment. It is considered to be another source of material for use in forming a template. The internet link to the ENPRM is:

http://www.eurocontrol.int/enprm/public/standard_page/enprm1003.html

2.4 **EASA AMC 20-24. EASA AMC 20-24 'Certification Considerations for the Enhanced ATS in Non-Radar Areas using ADS-B Surveillance (ADS-B-NRA) Application via 1090 MHZ Extended Squitter'** was issued on 02/05/2008 as an Acceptable Means of Compliance for the airworthiness and operational approval of aircraft installations. It has effectively become a means of certification of aircraft ADS-B installations.

4. ACTION BY THE MEETING

4.1 The objective of the ADS-B Regulator's Workshop is to develop a template for an APAC Region mandate and to present the outcome to the SITF Meeting. Australia has submitted a WP and IP for that purpose. As it is the Workshop that should define an appropriate template, it is therefore not considered appropriate or necessary in this WP to attempt to make any proposals for an actual template for APAC application. However, the four above referenced documentation sources are what is available for consideration in the development of any template.

4.2 The Meeting is invited to consider the above referenced documents as possible sample material for the preparation of a template for an aircraft ADS-B avionics mandate suitable for application by APAC Region States.
