

## CHANGE ISSUE – RTCA/DO-242

# MASPS for ADS-B Rev. A

Tracking Information (committee secretary only)	
Change Issue Number	72
Submission Date	04/17/03
Status (open/closed/deferred)	CLOSED
Last Action Date	09/15/2010

Short Title for Change Issue:	TCAS/ACAS CC and OM Flag Issues
-------------------------------	---------------------------------

MASPS Document Reference: DO-242A		Originator Information:	
Entire document (y/n)	N	Name	Gary Furr
Section number(s)	3	Phone	609-485-4254
Paragraph number(s)	3.4.4.9.1 3.4.4.10.1	E-mail	Gary.ctr.furr@faa.gov
Table/Figure number(s)		Other	garyfurr@hotmail.com

Proposed Rationale for Consideration (originator should check all that apply):	
	Item needed to support of near-term MASPS/MOPS development
Y	DO-260/ED-102 1090 MHz Link MOPS Rev A
	ASA MASPS
	TIS-B MASPS
Y	UAT MOPS and SARPS
	Item needed to support applications that have well defined concept of operation
	Has complete application description
	Has initial validation via operational test/evaluation
	Has supporting analysis, if candidate stressing application
Y	Item needed for harmonization with international requirements
Y	Item identified during recent ADS-B development activities and operational evaluations
Y	MASPS clarifications and correction item
	Validation/modification of questioned MASPS requirement item
	Military use provision item
	New requirement item (must be associated with traffic surveillance to support ASAS)

Nature of Issue:		Editorial	Y	Clarity		Performance	Y	Functional
------------------	--	-----------	---	---------	--	-------------	---	------------

**Issue Description:**

During the review of the UAT SARPS Technical Manual issues were raised with the Capability Code known as the “TCAS/ACAS Installed and Operational” flag defined in the ADS-B MASPS §3.4.4.9.1, and the Operational Mode parameter known as the “TCAS/ACAS Resolution Advisory Active” flag defined in the ADS-B MASPS, paragraph §3.4.4.10.1.

The debate began with the UAT SARPS Technical Manual because it was discovered that the UAT MOPS (DO-282) did not totally implement the requirements of the ADS-B MASPS §3.4.4.9.1 and §3.4.4.10.1. This problem is documented in Working Paper UAT-WP-15-04. However, during the discussion of the overall issue of TCAS/ACAS, it was concluded that the requirement in the ADS-B MASPS is either not correct, or does not specify a sufficient number of bits to define all possible states that would be required to define whether TCAS/ACAS is Installed and Operational and whether there is or is not an RA Active.

**Originator’s proposed resolution:**

Add a specific “unknown” value for each flag.

**Working Group 6 Deliberations:**

**09/15/2010 – Meeting #17**

The reconvened WG-6 reviewed this Issue Paper and agreed that it should be closed since this issue has been discussed and dealt with in each of the respective Link MOPS and has been edited into the working draft of DO-242B for combining with DO-289.