

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)	TBD
Last Action Date	04/17/03

Short Title for Change Issue:	TCAS/ACAS CC and OM Flag Issues
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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.furr@titan.com
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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
<u>Issue Description:</u>								
<p>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.</p> <p>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.</p>								

<u>Originator’s proposed resolution:</u>
Add a specific “unknown” value for each flag.

Working Group 6 Deliberations:

WG6 has not formally reviewed this Issue Paper to date.