

CHANGE ISSUE – RTCA/DO-242

MASPS for ADS-B Rev. A

Tracking Information (committee secretary only)	
Change Issue Number	68
Submission Date	07/10/02
Status (open/closed/deferred)	TBD
Last Action Date	None

Short Title for Change Issue:	Update rate for long range applications
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MASPS Document Reference:		Originator Information:	
Entire document (y/n)	No	Name	Rocky Stone
Section number(s)	2 and 3	Phone	(303) 780-3812
Paragraph number(s)		E-mail	Rocky.stone@ual.com
Table/Figure number(s)	2-4(a) and 3-4(a)	Other	

Proposed Rationale for Consideration (originator should check all that apply):	
<input type="checkbox"/>	Item needed to support of near-term MASPS/MOPS development
	DO-260/ED-102 1090 MHz Link MOPS Rev A
X	ASA MASPS
	TIS-B MASPS
	UAT MOPS
<input type="checkbox"/>	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
<input type="checkbox"/>	Item needed for harmonization with international requirements
<input type="checkbox"/>	Item identified during recent ADS-B development activities and operational evaluations
	MASPS clarifications and correction item
X	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:	<input type="checkbox"/> Editorial	<input type="checkbox"/> Clarity	<input checked="" type="checkbox"/> Performance	<input type="checkbox"/> Functional
<u>Issue Description:</u>				
<p>Update rates for long range applications (>40 miles) are listed as 12 seconds in table 2-4(a) and 3-4(a). In table 2-4(a) this rate may be appropriate for ground based use of surveillance information, as it is the current rate achieved by long range secondary surveillance radars. However, there has not been validation work done to determine the rate required for long range air-to-air applications. It may be possible that very low update rates (perhaps 30-60 seconds) are adequate for applications beyond 40 miles.</p>				

<u>Originator's proposed resolution:</u>
<ol style="list-style-type: none"> 1. Split table 2-4(a) into two tables, one with air-ground performance requirements, and the other with air-to-air performance requirements. 2. Initiate validation activity to determine what the "real" minimum update rates are for long range applications.

Working Group 6 Deliberations:

WG6 has not formally reviewed this Issue Paper yet. This Issue Paper was created in response to plenary discussions during the final review and comment process on the UAT ADS-B link MOPS. The UAT MOPS was submitted to the SC-186 plenary for review in June, 2002 which was after the completion of DO-242A. WG6 will consider this Issue Paper when it reconvenes to begin considering revision B of the ADS-B MASPS.