

CHANGE ISSUE – RTCA/DO-242

MASPS for ADS-B

Rev B

Tracking Information (committee secretary only)	
Change Issue Number	83
Submission Date	19 November 2009
Status (open/closed/deferred)	CLOSED
Last Action Date	09/15/2010

Short Title for Change Issue:	Removal of the Barometric Altitude Quality (BAQ) field and replacing it with the Geometric Vertical Accuracy (GVA) field
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MASPS Document Reference:		Originator Information:	
Entire document (y/n)	y	Name	Thomas Pagano, FAA
Section number(s)	2.1.2.16, 3.4.4.14	Phone	609-485-5387
Paragraph number(s)		E-mail	thomas.pagano@faa.gov
Table/Figure number(s)	Table 2-6	Other	

Proposed Rationale for Consideration (originator should check all that apply):	
<input type="checkbox"/>	Item needed to support of near-term MASPS/MOPS development
X	DO-260()/ED-102 1090 MHz Link MOPS / SARPs
X	UAT MOPS / SARPs
<input type="checkbox"/>	STP/ASAS MOPS
<input type="checkbox"/>	ASA MASPS
<input type="checkbox"/>	ADS-B or related TSO's, AC's or other regulatory guidelines
<input type="checkbox"/>	Item needed to support applications that have well defined concept of operation
<input type="checkbox"/>	RTCA OSED / SPR/Interop: (Approved/In Progress)
<input type="checkbox"/>	RFG OSED / SPR/Interop: (Approved/In Progress)
<input type="checkbox"/>	Has supporting analysis, if candidate stressing application
<input type="checkbox"/>	Item needed to support Ground Station Requirements/Specifications
<input type="checkbox"/>	Item identified during recent ADS-B development activities and operational evaluations
<input type="checkbox"/>	ADS-B MASPS clarifications and/or correction item
<input type="checkbox"/>	Validation/modification of questioned MASPS requirement item
X	New requirement item (must be associated with traffic surveillance to support ASAS or ATC Services)
<input type="checkbox"/>	Other: (Explain)

Nature of Issue:	<input type="checkbox"/>	Editorial	<input type="checkbox"/>	Clarity	<input type="checkbox"/>	Performance	X	Functional
<u>Issue Description:</u>								
<p>Along with the discussion related to the removal of the vertical components from the NIC, NAC and SIL parameters detailed in Issue Paper IP78, SC-186 WG-3 and EUROCAE WG-51, SG-1 discussed locating the bits for broadcasting the required vertical metrics information, including the rate component in the future. This discussion resulted in the removal of the Barometric Altitude Quality code (BAQ) and the creation of the Geometric Vertical Accuracy (GVA) parameter.</p>								

Originator’s proposed resolution, if any:

Working Paper 1090-WP24-03 discussed the need to remove the vertical components, while 1090-WP27-15 made specific proposals for the draft DO-260B. Working Paper 1090-WP27-11 was presented as a review of the need for vertical metrics by existing MASPS and MOPS documents. Working Paper 1090-WP28-24R1 produced the required document changes. Real-time discussions and changes were made to the encoding of the Geometric Vertical Accuracy (GVA) parameter as a result of FRAC comments.

Note: Attach additional sheets to capture supporting discussion with source and date.

Issue History:

14 May 2001: Issue Paper IP39 detailed the need for the BAQ and NIC_{BARO} parameters.

2009: RTCA/EUROCAE discussions detailed the need to remove the vertical components from NIC, NAC and SIL as well as the need to broadcast required vertical metrics. The BAQ was deleted and the GVA was created. The NIC_{BARO} parameter was not deleted.

2010: It now becomes a matter of searching through DO-242A and deleting references to the “BAQ” and replacing them appropriately with references to the GVA.

Working Group 6 Deliberations:

9/15/2010 – Meeting #17

The reconvened WG-6 reviewed this Issue Paper and agreed that all of the proposed changes have been made to the respective Link MOPS and to the working draft of DO-242B as it will be combined with DO-289.