

**RTCA Special Committee 186, Working Group 5**

**ADS-B UAT MOPS Maintenance**

**RTCA Headquarters, Washington DC  
3 – 4 June 2009**

**Proposal to Address Change Item #20 for Transmitter Input Requirements  
Tables 2-64 and 2-98**

**Tom Mosher, Garmin International  
Gary Furr, Engility Corp. supporting the FAA Technical Center**

**Summary**

This Working Paper addresses proposed changes to Tables 2-64 and 2-98 regarding the proposed solution to Change Item #20, which indicates that the Tables mostly refer to data elements that are part of the transmitted payload. However, some of the elements are in fact required control inputs that are not transmitted, such as (a) Address Type Selection, (b) Altitude Type Selection, and (c) Pressure Altitude Disable. The initial proposal was to consider splitting Table 2-64 into two separate tables, one for transmitted data elements, and a second for control elements that are not transmitted. This Working Paper offers an alternative solution.

## **Introduction:**

This Working Paper addresses proposed changes to Tables 2-64 and 2-98 regarding the proposed solution to Change Item #20, which indicates that the Tables mostly refer to data elements that are part of the transmitted payload. However, some of the elements are in fact required control inputs that are not transmitted, such as (a) Address Type Selection, (b) Altitude Type Selection, and (c) Pressure Altitude Disable. The initial proposal was to consider splitting Table 2-64 into two separate tables, one for transmitted data elements, and a second for control elements that are not transmitted. This Working Paper offers an alternative solution.

## **Proposal:**

A) In the body text of subparagraph 2.2.7.1, in the first sentence, delete starting with "so their bits can be verified..." to the end of the sentence.

This subparagraph contains requirements for access to the input elements required to compose the ADS-B Messages ~~so their bits can be verified for their mapping into the structure of the transmitted message.~~

B) Add a new 2nd sentence as follows:

"These input elements either provide data that maps directly into the transmitted ADS-B Message structure, or provide control signals that establish the Message contents."

This subparagraph contains requirements for access to the input elements required to compose the ADS-B Messages. These input elements either provide data that maps directly into the transmitted ADS-B Message structure, or provide control signals that establish the Message contents.

C) In Table 2-64 and Table 2-98, add a new footnote (3) to Items 2, 5, and 9. Footnote text as follows:

(3) These elements are control inputs and are not themselves directly contained in the transmitted ADS-B Messages.