

RTCA Special Committee 186, Working Group 5

ADS-B UAT MOPS Maintenance

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

**Proposed Changes to DO-282B to Reserve for Receiving ATC Services
In Response to Action Item 23-08**

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Summary
This Working Paper addresses Action Item 23-08, which was to “review the MOPS and propose changes to set the “Receiving ATC Services” to “Reserved for Receiving ATC Services.”

Introduction:

This Working Paper addresses Action Item 23-08, which was to “review the MOPS and propose changes to set the “Receiving ATC Services” to “Reserved for Receiving ATC Services.”

Proposals:

1. Replace §2.2.4.5.4.13.3 in its entirety with the following:

2.2.4.5.4.13.3 Reserved for “Receiving ATC Services Flag”

Note: *The purpose of the “Receiving ATC Services” bit is to allow the crew to indicate to the ground whether or not the crew is receiving services from Air Traffic Control. Currently, the transmission of this bit is not needed since it is redundant with the Mode A Code. This bit is provisioned for the future. This is in anticipation that in the future, the Mode A Code may no longer be used for flight plan association in favor of the ICAO 24 bit address or Call Sign fields.*

Note: *A “Receiving ATC Services” input is referenced in multiple locations in these MOPS. Currently, this input can be inferred by the Mode A Code setting by the crew. In the USA, a code of “1200” indicates the crew is NOT receiving ATC services while any other code would indicate the crew IS receiving ATC services. Should Mode A Code be unnecessary in the future, the “Receiving ATC Services” input could become a discrete input from the crew.*

In this Version of these MOPS, the “Reserved for Receiving ATC Services Bit” (byte 27, bit 5) **shall** be set to ZERO.

2. In §2.2.4.5.1.3.2 make the following change indicated by the change marks (all other portions of this section are unaffected).

An “ADDRESS QUALIFIER” value of ONE (binary 001) **shall** indicate that the message is an ADS-B Message from an aircraft that is not receiving ATC services i.e., the Receiving ATC Services Input (§2.2.4.5.4.13.3) is ZERO, and that the “ADDRESS” field holds the transmitting aircraft’s self-assigned ownship temporary address. An “ADDRESS QUALIFIER” value of ONE **shall not** be used when the “Receiving ATC Services Input Flag” (§2.2.4.5.4.13.3) is set to ONE, indicating that the Participant is receiving ATC services.

3. Modify Table 2-49 as follows:

Replace all existing text under the “Encoding” column for bit 5 with “**Reserved for Receiving ATC Services Flag**”

4. Modify Table 2-64 as follows:

for element #30, re-label the Input Data Element column entry to “**Receiving ATC Services Input**”