

Note to Manufacturers

The following is a clarification to assist manufacturers in implementation of equipment conforming to TSO-C154a:

The following guidance is included to insure that the transmission of the “Receiving ATC Services” Flag specified in RTCA DO-282A §2.2.4.5.4.13.3 does not result in an inappropriate value potentially being set in the “Address Qualifier” Field specified in §2.2.4.5.1.2. The “Receiving ATC Services” Flag is controlled by pilot entry and is set to a value of ONE to indicate that the aircraft participant is receiving ATC services. Additionally, the “Address Qualifier” Field supports a value that indicates that the Address Field included in transmitted UAT Messages is a 24-bit self assigned Temporary Address instead of the permanent ICAO 24-bit Address. The Address Selection input determines whether the ICAO 24-bit Address or the 24-bit self assigned Temporary Address is transmitted in Messages and indicated by the Address Qualifier Field. However, as specified in §2.2.4.5.1.2, the use of the 24-bit self assigned Temporary Address is not allowed when the aircraft is receiving ATC Services. If the aircraft is receiving ATC Services and the selection of a 24-bit self-assigned Temporary Address has been made, then the “Address Qualifier” Field **shall** be set to ZERO, as specified in §2.2.4.5.1.3.1, indicating that the Address Field contains the ICAO 24-bit Address.

This clarification insures that the Transmitting Subsystem will use the ICAO 24-bit Address in the case when the aircraft participant is receiving ATC services, even when the pilot has inappropriately selected the use of a 24-bit self-assigned Temporary Address. This clarification will be included in the next future update to this TSO so that there is no confusion in the loading of the Address Qualifier and Address Fields of transmitted UAT Messages when pilot inputs equate to this condition.

End