

WG2 Comments on IP42, Altimetry Self-Test Feature

At their September 2001 meeting, SC186 WG2 (TIS-B) discussed IP # 42, which proposes the use of TIS-B to uplink a message alerting pilots if their ADS-B reported altitude was in error. The TIS-B WG concluded the following:

1. This was an important issue. That it impacted vertical height integrity for ADS-B enabled ACM.
2. IP #42 should be revisited by WG-6 and that it be addressed now, in DO-242A, not later.
3. This functionality was not a TIS-B service, nor is it suggested to be one.
4. Aircraft based avionics would best be suited to do this function / feature.
5. That the controller should also be alerted if the aircraft's altitude message set was in error. Consequently, the group saw a need to include a validation bit in the ADS-B message set, as part of our on-going work on revising DO-242A. Maybe, they said, this need could somehow be combined within the V-NIC message, to reduce bandwidth loading.

As result of the above, I request that some time next week be allocated so we can revisit this issue paper, especially since it also impacts achieving a high vertical height integrity level for ACM.

Gary Livack