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RTCA Special Committee 186, Working Group 3
EUROCAE WG-51, SG-1

ADS-B 1090ES MOPS Maintenance

WG-3 Meeting #30
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Joint Session

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Proposed Changes to Latency Requirements

Summary

This Working Paper addresses proposed new language for Latency, as developed
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2.2.7.2.4 Total Latency of Position Measurements

- a. When in the non-precision mode, all transmitted messages **shall** reflect position data with a total latency of no more than 1.5 seconds at the time of message transmission.
- b. When in the precision mode, all transmitted messages **shall** reflect position data with a total latency of no more than 0.7 seconds at the time of message transmission.

Notes:

1. *Total latency is defined as time of message transmission minus the time of applicability of the sensor measurement.*
2. *The precision mode total latency requirement has been derived from the requirements of RTCA DO-242A, §3.3.3.2.1, RTCA DO-229D, §2.1.2.6.2 and RTCA DO-316, §2.1.2.6.2, allowing 100 milliseconds for an output position to be received by the UAT Transmitting Subsystem.*