



WG-5/WG-6 Working Relationship



ADS-B MASPS Issues being
addressed by Link MOPS Revisions



Background

- SC-186 WG-6 has been dormant since April 2002 with the publication of the revised ADS-B MASPS (DO-242A).
- Database of ADS-B issue papers has been maintained since DO-242 approval.
 - http://adsb.tc.faa.gov/WG6_Meetings/Issue_Papers.htm
- Recent SC-186 Ad Hoc activity recommended making WG-6 responsible for both ADS-B and ASA MASPS.
- SC-186 Leadership tasked WG-6 with analyzing the best way to decouple vertical and horizontal components of NIC, NAC, and SIL.
- Dean Miller of Boeing agreed to co-chair WG-6, replacing Tom Foster who has retired from Rockwell Collins.
- Many issues being considered by WG-3 for DO-260B are not just link-implementation, but are ADS-B system issues.

Problem Statement

- DO-260A is being revised with very aggressive schedule tied to the FAA Rulemaking;
- Some issues being addressed are system-level issues (e.g., revised SIL definition, deleted parameters);
- Must make sure that issues are considered from the MASPS perspective, *without hindering MOPS revision schedule*.
 - Resolve issues at ADS-B system level;
 - Assure compatibility with other ADS-B links.

Proposed Approach

- WG-6 cooperates with WG-3 as one group.
- WG-6 will cooperate with WG-5 as one group.
- For relevant topics/agreed changes, DO-242A Issue Papers will be created or updated to document the issue and/or the proposed resolution.
- MOPS revision will complete with 2 separate deliverables:
 1. Revised Link MOPS
 2. Set of updated DO-242A Issue Papers

Potential MASPS Issue Papers

- Duplicate Addresses
- Latency requirements
- Provision of Mode 3/A code
- Decoupling of vertical and horizontal components of NIC, NAC, and SIL
- Revised SIL definition
- Transmission Classes
- CDTI capability field, Receiving ATC Services Flag, etc.
- Target State and Status revision for Selected Altitude
- Others?

Future WG-6 Activities

- Maintain database of ADS-B Issue Papers.
- Provide support for WG-5 & UAT MOPS issues during their revision cycle.
- Propose to SC-186 what the criteria is for justifying development of revised MASPS.
- Make recommendations on the utility of combining the ASA and ADS-B MASPS in the next revision cycle.