

Working Group 6  
 RTCA DO-242A ADS-B MASPS  
 Minutes of 13th Meeting held at RTCA, Inc, Washington DC  
 April 8-12, 2002

The attendees included:

Tom Foster, Rockwell Collins	Bill Flathers, AOPA	Robert Manning, AF/XOR-GANS
Stuart Searight, FAA / ACT-350	Bill Harman, MIT Lincoln Laboratory	James Maynard, UPS-AT
Jerry Anderson, AIR-130	Val Heinz, MIT Lincoln Laboratory	Ken Staub, Trios Assoc.
Richard Barhydt, NASA Langley	Steve Horvath, UPS-AT	Tony Warren, Boeing Air Traffic Mgmt.
Ann Drumm, MIT Lincoln Laboratory	Ron Jones, FAA / ASD-140	Gene Wong, FAA / AND-530
	Gary Livack, FAA / AFS-400	

**Monday, 8 April & Tuesday, 9 April**

1. Introductory Remarks

- Tom Foster convened the meeting by welcoming everyone to RTCA. Tom thanked everyone for the efforts in getting the plenary draft of the MASPS completed and distributed on schedule. Tom also thanked those who reviewed the draft and provided comments.

2. Review Agenda

- While no formal agenda was distributed prior to the meeting, Tom proposed the following course of action to prepare for plenary:
  - Make a pass through all received comments and categorize them as “non-concur”, “major”, “minor”, and “editorial”.
  - A second pass of the comments would then be done to resolve the final status of each comment. Non-concur comments would be addressed first, followed by “major”, then “minor”, and lastly “editorial” as time permits.
  - Tom asked everyone to not rehash old discussions and to stay on topic with the particular comment on the table. If no agreement seems attainable, the comment will be forwarded to plenary for discussion and final disposition.

3. Categorizing of Comments

- The first pass of the comments was performed and all “non-concur” comments were identified.
- UPS-AT identified those comments of theirs they felt were more than just “editorial”.

4. Resolution of Comments

- WG6 then went through all non-concur comments and resolved as many as they could with the comment authors. Those that could not be resolved were so noted and further discussion on those comments was deferred until plenary convened on Wednesday.
- Following the non-concur comments, those comments deemed more than just “editorial” were reviewed and as many as possible were resolved. Those that could not be resolved were so noted and further discussion on those comments was deferred until plenary convened on Wednesday.

- A quick pass of the “editorial” comments was performed. Most were accepted as submitted, with a few being rejected.
- Final disposition of all submitted comments prior to plenary were documented in the an updated version of the comments matrix posted on the web site.

5. WG6 adjourned their meeting at the end of Tuesday’s session.

- Tom took the action to summarize the status of all received comments and consolidate and summarize the comments deferred for discussion at plenary.
- It was agreed that WG6 would reconvene Friday morning after plenary to asses the work remaining as dictated by plenary decisions.

**Friday, 12 May**

6. WG6 reconvened on Friday to asses the work needed to complete the ADS-B MASPS in light of the decisions reached by plenary.

- Stuart agreed to incorporate all comment resolutions as documented in the comments matrix.
- Action items were given out on the remaining topic to be worked on.

7. It was agreed that WG6 would meet from May 7 through May 9 to review the final changes needed for DO-242A. All updated material is to be made available no later than Wednesday, May 1.

8. Future Meetings

May 7-9

Rockwell Collins Offices, Arlington, VA  
9:00am Tuesday through 3:00pm Thursday

9. Action Items

- See Table on following pages.

Action Number	Action Item Description	Assigned to	Status
13-1	Review the recommended changes to the size code table (Cassel#1)	Ken Staub	
13-2	Revise the position reference figure and associated text(UPS-AT #5)	Jim Maynard	
13-3	Provide Appendix on NAC <sub>v</sub> determination when NAC <sub>v</sub> is not available (Varner #3)	Jim Maynard	
13-4	Review Appendix N for edits needed to be consistent with Plenary decisions on TC Report	Tony Warren	
13-5	Consult with Jonathan Hammer regarding the traffic scenario basis in Appendix J (Jones #19)	Rich Barhydt	
13-6	Review Appendix Q for edits needed to be consistent with comment resolutions & Plenary decisions	Rich Barhydt	
13-7	Review Appendix O for edits needed to be consistent with comment resolutions & Plenary decisions	Tony Warren	
13-8	Review Appendix R for edits needed to be consistent with comment resolutions & Plenary decisions	Jim Maynard	
13-9	Review Issue Papers for updates need to be consistent with DO-242A and final resolutions	et al	
11-1	Write Appendix N with justification and background information on intent requirements and to include current best proposals for TCR+1 update requirements. This appendix will be based largely on the revised Intent White Paper.	Tony Warren Richard Barhydt	Closed
11-2	Write Appendix O to fully describe the scenarios on which the intent update requirements are based.	Tony Warren Stan Jones	Closed
11-3	Write a non-normative Appendix "Q" on OC-ARV and possible future conditions that will require its transmission.	Richard Barhydt	Closed
11-4	Review Appendix L and determine what changes are needed as a result of the new intent requirements.	Stan Jones	
11-5	Incorporate agreements on how to represent Intent requirements originally proposed in section 3.3.3 and represent them in text form with summarization in tables. Distribute prior to February WG6 meeting.	Stuart Searight	Completed (242A-WP-12-01)
11-6	Author an Issue Paper on the request, need, and justification for the "New Note 7."	Steve Heppe	Completed (IP58)
11-7	Author an Issue Paper requesting that NAC <sub>v</sub> only have values [0..3], for consistency with resolution requirements and reducing NAC <sub>v</sub> to a 2-bit field.	Steve Heppe	Completed (IP57)
11-8	Verify the proper phraseology is used for obstacle categories (point, cluster, and line) is used in 2.1.2.4 of 242A-WP-11-01A.	Ken Staub	Closed
11-9	Provide text for 2.1.2.10.2 "TCR Cycle Number" and 2.1.2.10.3 "Reserved for TCR Transition Flag" subparagraphs	Tony Warren	Completed (242A-WP-12-01)
11-10	Author an Issue Paper on the apparent error in Note 3 of Table 3-4(a) and Appendix H, and send that Issue Paper to Stan Jones and Jonathan Hammer for review.	Tony Warren	Completed (IP60)
10-1	Write a formal Issue paper for the IDENT request provided by Capstone and propose MASPS language for this capability.	Ken Staub	Completed (IP52)
10-2	Author Issue Paper requesting ADS-B capability to transmit code which distinguishes whether or not the flight is under ATC control (analogous to squawking 1200).	Bill Flathers	Completed (IP53)

Action Number	Action Item Description	Assigned to	Status
10-3	Supply text for remaining TBDs for TSR and TCR requirements to Jim Maynard for incorporation into 242A-WP-11-01.	Richard Barhydt	Completed (01/24/02)
10-4	Incorporate material from 242A-WP-10-10 into next draft of the SV, MS, and OC Report Reorganization paper (242A-WP-11-01)	Jim Maynard	Completed (242A-WP-11-01)
10-5	Facilitate another round of discussion on Note 7 of Table 3-4 (IP35) with Stan Jones, Jonathan Hammer, Steve Heppe and Bill Harman and set up a telecon for the 3 <sup>rd</sup> week in January with the goal of bringing this to closure.	Stuart Searight	Completed (242A-WP-11-08)
10-6	Request Stan Jones to author an Issue Paper on user population requirement proposal in 242A-WP-10-05.	Stuart Searight	Done (IP55)
10-7	Write an Issue Paper on the request from Capstone for the ability to stop transmitting altitude upon request for situations when pressure altitude is.	Jim Maynard	Completed (IP54)
10-8	Write an Issue Paper on the request from Capstone for ability to switch to “no squawk” or receive only mode. (The 1090 requirement for “Stand-by Mode” in section 4.4.6 of DO-260. will be sighted.)	Jim Maynard	Completed (IP53)
10-9	Incorporate obstacle definitions into MASPS glossary upon receiving the Airport Mapping document from Rudy Riana at RTCA.	Stuart Searight	OBE (No definitions in provided document)
9-8	Write an Issue Paper regarding the analysis needed to address the accuracy and latency requirements for altitude rate in a future MASPS revision.	Tom Foster	
9-10	Author an Issue Paper stating the need to have the ASA MASPS service levels carried into the ADS-B MASPS.	Jonathan Hammer	
9-20	Write up summarization of the discussion on coasting, and element validity being based message reception requirements.	Tom Foster	
7-17	Reword Issue Paper 19 to reflect the broader context of runway incursion alerting this paper now represents.	Gary Livack	
5-1	Write an Issue Paper documenting the issues and concerns related to passive ranging. This Issue Paper will <u>not</u> be addressed in Rev A.	Jim Maynard	
3-9	Write comments to IP15 explaining rationale for rejecting	Dan Castleberry	
2-16	Write ad hoc group’s response to issue #3 of IP7 that will put issue in broader context and serve as proposal to WG#4 for consideration in the ASA MASPS.	Dan Castleberry	