

**RTCA Special Committee 186 Working Group 6**

**ADS-B / ASA MASPS Maintenance**

**Meeting #17**

**Boeing, 1200 Wilson Blvd., Rosslyn/Arlington Virginia**

**9:00am – 5:00pm EDT**

**14 – 16 September 2010**

**Proposal to Combine the Contents of DO-242B and DO-289**

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**SUMMARY**

This Working Paper reviews the Table of Contents of both DO-242B and DO-289 for the purpose of proposing a likely Table of Contents and organization of a document resulting in the combination of the two MASPS.

## **1. INTRODUCTION**

The RTCA SC-186 Plenary has directed the newly reconvened Working Group 6 to review the ADS-B MASPS (working draft of DO-242B) and the ASA MASPS (DO-289, including Change 1) for the purpose of combining the two MASPS documents.

During discussions in the two Teleconference Meetings that Working Group 5 has held since reconvening, it has been suggested that the two MASPS documents be combined into a newly minted RTCA publication which represented a combining and reorganizing of the materials in both MASPS documents.

This Working Paper serves to review the Tables of Contents of the two MASPS documents and to make a recommendation as to the Table of Contents of the future product of the WG-6 effort.

## 2. CURRENT TABLES OF CONTENTS

Sections numbers of DO-242B	Title of DO-242B Sections	Sections numbers of DO-289	Title of DO-289 Sections
1	Purpose and Scope	1	Purpose and Scope
1.1	Introduction	1.1	Introduction
1.2	System Overview	1.2	System Overview
1.3	Operational Applications	1.3	Key Definitions
1.4	Verification Procedures	1.4	Aircraft Surveillance Applications
		1.5	Key Concepts of Operation
		1.6	Application Analysis Methodology
2	Operational Requirements	2	ASA System Requirements
2.1	General Requirements	2.1	ASA Applications
2.2	System Performance – Standard Operational Conditions	2.2	Transmit Quality Level and Application Capability Level
		2.3	ASA System Architecture
		2.4	Requirements
3	ADS-B System Definition and Functional Requirements	3	Interface and Subsystem Requirements
3.1	System Scope and Definition of Terms	3.1	ASA Transmit Subsystems
3.2	ADS-B System Description	3.2	Surveillance Data Link System Requirements
3.3	System Requirements	3.3	ASA Receiving Participant Subsystems
3.4	ADS-B Messages and Reports	3.4	External Subsystems
3.5	ADS-B Subsystem Requirements		
3.6	ADS-B Functional Level Requirements		
4	Procedures for Requirement Verification		
Appendix A	Acronyms	Appendix AA	Acronyms and Definitions of Terms
		Appendix AB	Bibliography
		Appendix AC	Accuracy and Integrity Parameters
		Appendix AD	Requirements for GPS-Derived Position Data for Support of ATC “Radar-Like” Services
		Appendix AE	Compatibility of ASA MASPS with ADS-B Standards and Fielded Systems
Appendix B	Definitions of Terms	Appendix B	Description of the Application Appendices
Appendix C	Bibliography and References	Appendix C	Enhanced Visual Acquisition (EVACQ)
Appendix D	Near-Term ADS-B Applications	Appendix D	Conflict Detection (CD)
Appendix E	Other Applications	Appendix E	Airport Surface Situational Awareness (ASSA)
Appendix F	Efficient Spectrum Utilization	Appendix F	Final Approach and Runway Occupancy Awareness (FAROA)
Appendix G	Design Tradeoff Considerations	Appendix G	Enhanced Visual Approach (EVAPP)
Appendix H	Receive Antenna Coverage Constraints	Appendix H	Airborne Conflict Management (ACM)
Appendix I	Integrity Considerations for ADS-B Applications	Appendix I	Approach Spacing for Instrument Approaches (ASIA)
Appendix J	Accuracy and Update Period Analysis	Appendix J	Independent Closely-Spaced Parallel Approaches (ICAPA)
Appendix K	Latency and Report Time Error Data		
Appendix L	Track Acquisition and Maintenance Requirements		

<b>Sections numbers of DO-242B</b>	<b>Title of DO-242B Sections</b>	<b>Sections numbers of DO-289</b>	<b>Title of DO-289 Sections</b>
Appendix M	Examples of On-Condition Report Formats		
Appendix N	Intent Guidance Material for Future ADS-B Intent Broadcast		
Appendix O	Determination of Intent Information Exchange Requirements for Air-Air Encounter Alerting and De-confliction		
Appendix P	4-bit Coding for Make and Model in ADS-B		
Appendix Q	Future Air-Referenced Velocity (ARV) Broadcast Conditions		
Appendix R	Determining the Navigation Accuracy Category for Velocity (NAC <sub>v</sub> )		