

RTCA Special Committee 186 Working Group 6

ADS-B / ASA MASPS Maintenance

Meeting #30

Teleconference and WebEx Session

Starting at 9:00am EST

15 February 2012

**Proposed Table of Contents for the ATSSA MASPS
(Combined from ADS-B, ASA and TIS-B MASPS)**

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SUMMARY

This Working Paper reviews the proposed Table of Contents of the combined MASPS, currently being referenced as the ATSSA MASPS, including parts of DO-242B, DO-286B and DO-289 as it has been reviewed and revised during several WG-6 Meetings.

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 the course of the WG-6 Meetings, it was also determined that parts of the TIS-B MASPS (DO-286B) would be included in the new ATSSA MASPS.

This Working Paper serves to present the latest version of the proposed Table of Contents of the combined MASPS document in a format that will allow further modifications during this and future meetings and Teleconferences.

2.0 Continuing Proposed Outline of the new ATSSA MASPS Document

Sections numbers of DO-3xx	Title of DO-3xx Sections	Author	Comments
1	Purpose and Scope	Larry Kenney	Review Section 1 of both DO-242A and DO-289 and make recommendations on final content.
1.1	Introduction		
1.2	System Overview		
1.3	Operational Applications		
2	Functional and Operational Requirements	Dean Miller	Review Section 2 of both DO-242A and DO-289 and make recommendations on final content.
2.1	General Requirements		Probably all of section §2.1.2 can be moved into the ADS-B section below into §3.3. §2.1.2.19 may specifically be moved into Appendix “I” and revised
2.2	Operational Requirement Descriptions		Parts of DO-289 section 2.4 will be moved into §2.2. Need to review the need for the Operational descriptions in the new document.
3	ADS-B and Airborne Systems Definition and Performance Requirements		Latency definitions will have to come from more recent documents than the original MASPS.
3.1	System Descriptions		Includes the following items: (1) Air Systems, (2) Ground Systems. Surface Vehicles are assumed to be part of the system.
3.1.1	ADS-B Subsystem Description (Transmit and Receive)	Tom Pagano	Review Sections of both DO-242A and DO-289 and make recommendations on final content.
3.1.2	ASSAP Subsystem Description	Dave Elliott	
3.1.3	CDTI Subsystem Description	Pete Stassen	
3.1.4	ANSP Systems		
3.1.4.1	ADS-B (Ground Receive) (RAD, NRA, APT)	John Fisher	
3.1.4.2	TIS-B and ADS-R Service Description	Mike Garcia	
3.1.4.3	TIS-B and ADS-R Subsystem Requirements	Garcia, Chamlou	
3.1.5	Surface Vehicles	John Fisher	
3.2	Broadcast Information Elements Requirements	Tom Pagano	
3.3	System Application Requirements		Parts of DO-289 §2.4 may be moved into §3.4. Top level summary and table of applications.
3.3.1	Latency (additionally App_J from new DO-317A ????)	Miller, Strain, Pagano	
3.3.2	ADS-R/TIS-B Service Status Update Interval	Miller, Strain, Pagano	

Sections numbers of DO-3xx	Title of DO-3xx Sections	Author	Comments
3.4	Subsystem Requirements		
3.4.1	ASSAP	Dave Elliott	
3.4.2	CDTI	Pete Stassen	
3.4.3	ADS-B Subsystem Requirements	Tom Pagano	
3.4.3.1	ADS-B Surveillance Coverage	Tom Pagano	
3.4.3.2	ADS-B Information Exchange Requirements by Equipage Class	Tom Pagano	
3.4.3.3	ADS-B Data Exchange Requirements	Tom Pagano	
3.4.3.4	ADS-B Network Capacity	Stan Jones	
3.4.3.5	ADS-B Medium	Stan Jones	
3.4.3.6	ADS-B System Quality of Service	Dean Miller	
3.5	Messages and Reports	Gary Furr	The Intent Info can be removed IP12-ASA needs to be reviewed as part of this editing. Add broadcast of TCAS RA Message for TCAS equipped aircraft.
3.6	External Subsystem Requirements	Rudy Johnson	Section 3.4 of DO-289 “External Subsystems” should be reviewed and included as necessary
3.7	Assumptions		
4	ADS-B IN System Applications Requirements		
4.1	Basic Airborne Situational Awareness (AIRB) (mentions EVAcq)	Eric Vallauri	
4.2	Visual Separation n Approach (VSA)	Eric Vallauri	
4.3	Basic Surface Situational Awareness (SURF)	Eric Vallauri	
4.4	In Trail Procedure (ITP)	Ken Jones	
4.5	Interval Management	Peter Moertl	
4.5.1	GIM-S	Peter Moertl	
4.5.2	FIM-S	Peter Moertl	
4.6	Future Applications		
4.6.1	SURF-IA	Peter Moertl	
4.6.2	TSAA	David Gray	
Appendix A	Acronyms and Definitions of Terms	Gary Furr	First presented in WP26-04
Appendix B	Bibliography and References	Gary Furr	First presented in WP26-04
Appendix C	Derivation of Link Quality Requirements for Future Applications	Dean Miller	
Appendix D	Receive Antenna Coverage Constraints (update old 242A-App_H)	Tom Pagano Stan Jones	

Sections numbers of DO-3xx	Title of DO-3xx Sections	Author	Comments
Appendix E	Performance Requirements to Support Air-to-Air Use of Target State Reports	Tom Pagano Gary Furr	
Appendix F	Derivation of Track Acquisition and Maintenance Requirements (updated old 242A-App_L, presented in WP27-06)	Tom Pagano	
Appendix G	Future Air-Referenced Velocity (ARV) Broadcast Conditions (updated old 242A-App_Q, presented in WP28-06)	Tom Pagano	