

RTCA, Inc.  
1828 L Street, NW, Suite 805  
Washington, DC 20036-5133 USA

**Minimum Aviation System Performance  
Standards for Automatic Dependent Surveillance  
Broadcast (ADS-B)**

RTCA DO-242A  
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Prepared by: SC-186  
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## FOREWORD

This report was prepared by Special Committee 186 (SC-186) and approved by the RTCA Program Management Committee (PMC) on June 25, 2002. This document (RTCA/DO-242A) supersedes and replaces its first edition (RTCA/DO-242, dated February 19, 1998).

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## Table of Contents

<b>1</b>	<b>PURPOSE AND SCOPE</b> .....	<b>1</b>
1.1	Introduction.....	1
1.2	System Overview.....	3
1.2.1	Definition of Automatic Dependent Surveillance Broadcast.....	3
1.2.1.1	Relationship to Primary and Secondary Surveillance Radar.....	4
1.2.1.2	Relationship to Addressed ADS.....	5
1.2.1.3	Relationship to Other Broadcast Services.....	5
1.2.2	Operational Goals, Limitations and Considerations.....	6
1.2.2.1	Operational Performance Considerations.....	6
1.2.2.2	Safety Goals.....	7
1.2.2.3	Economic Goals.....	7
1.2.2.3.1	Economic Goals—Air Traffic Service Provider.....	7
1.2.2.3.2	Economic Goals—Airspace Users.....	8
1.2.2.4	System Operational Limitations.....	8
1.2.3	Assumptions.....	9
1.2.3.1	Aircraft/Vehicle Equipage.....	9
1.2.3.2	ATS Service Provider Equipage.....	9
1.2.3.3	Standardization.....	9
1.2.4	Operational Environment.....	10
1.2.4.1	Levels of Functional Capability.....	10
1.2.4.2	Levels of Operational Service Supported by ADS-B.....	11
1.2.5	Benefits Enabled by ADS-B from other A/Vs.....	11
1.2.6	Aircraft Equipment Overview.....	12
1.2.7	Ground Equipment Overview.....	13
1.2.8	Transition from the Current Surveillance Architecture.....	13
1.2.8.1	Surveillance Architecture Transition.....	15
1.2.8.2	Airspace User Transition.....	17
1.3	Operational Applications.....	18
1.3.1	Cockpit Display of Traffic Information.....	18
1.3.2	Airborne Collision Avoidance.....	19
1.3.2.1	Improvements to Existing Collision Avoidance Systems.....	19
1.3.2.2	ACAS Based on ADS-B.....	20
1.3.3	Conflict Management and Airspace Deconfliction.....	20
1.3.3.1	On-board Conflict Management and Airspace Deconfliction.....	20
1.3.3.2	ATS Surveillance and Conflict Management.....	21
1.3.4	ATS Conformance Monitoring.....	22
1.3.4.1	Simultaneous Approaches.....	22
1.3.4.2	Incursion Processing.....	22
1.3.5	Other Applications.....	23
1.4	Verification Procedures.....	23
<b>2</b>	<b>OPERATIONAL REQUIREMENTS</b> .....	<b>25</b>
2.1	General Requirements.....	25
2.1.1	General Performance.....	26
2.1.1.1	Consistent Quantization of Data.....	26
2.1.1.2	ADS-B Reports Characteristics.....	26
2.1.1.3	Expandability.....	26
2.1.2	Information Transfer Requirements.....	27
2.1.2.1	Time of Applicability (TOA).....	27
2.1.2.2	Identification.....	27

2.1.2.2.1	Call Sign .....	27
2.1.2.2.2	Participant Address and Address Qualifier .....	27
2.1.2.2.2.1	Participant Address .....	28
2.1.2.2.2.2	Address Qualifier .....	28
2.1.2.2.3	ADS-B Emitter Category .....	28
2.1.2.3	A/V Length and Width Codes .....	30
2.1.2.4	Position .....	30
2.1.2.5	ADS-B Position Reference Point .....	31
2.1.2.6	Altitude .....	34
2.1.2.6.1	Pressure Altitude .....	34
2.1.2.6.2	Geometric Altitude .....	34
2.1.2.7	Horizontal Velocity .....	34
2.1.2.8	Vertical Rate .....	35
2.1.2.9	Heading .....	35
2.1.2.10	Capability Class (CC) Codes .....	36
2.1.2.11	Operational Mode (OM) Codes .....	36
2.1.2.12	Navigation Integrity Category .....	36
2.1.2.13	Navigation Accuracy Category for Position (NAC <sub>p</sub> ) .....	38
2.1.2.14	Navigation Accuracy Category for Velocity (NAC <sub>v</sub> ) .....	40
2.1.2.15	Surveillance Integrity Level (SIL) .....	41
2.1.2.16	Barometric Altitude Quality Code (BAQ) .....	41
2.1.2.17	Barometric Altitude Integrity Code (NIC <sub>baro</sub> ) .....	42
2.1.2.18	Emergency/Priority Status .....	42
2.1.2.19	Intent Information .....	42
2.1.2.19.1	Short Term Intent .....	43
2.1.2.19.2	Long-Term Intent .....	44
2.1.2.20	Other Information .....	48
2.2	System Performance – Standard Operational Conditions .....	48
2.2.1	ADS-B System-Level Performance .....	48
2.2.2	ADS-B System-Level Performance—Aircraft Needs .....	53
2.2.2.1	Aircraft Needs While Performing Search to Visual Acquisition .....	54
2.2.2.2	Aircraft Needs for Conflict Avoidance and Collision Avoidance .....	54
2.2.2.3	Aircraft Needs for Future Collision Avoidance .....	55
2.2.2.3.1	Environment .....	56
2.2.2.3.2	Operational Scenario .....	56
2.2.2.4	Aircraft Needs While Performing Station-Keeping .....	56
2.2.2.4.1	Environment .....	57
2.2.2.4.2	Operational Scenario .....	57
2.2.2.5	Aircraft Needs for Separation Assurance and Sequencing (Cooperative-Separation for Free Flight) .....	58
2.2.2.5.1	Environment .....	58
2.2.2.5.2	Operational Scenario .....	59
2.2.2.6	Aircraft Needs for Flight Path Deconfliction Planning (Cooperative Separation in Oceanic / Low Density En Route Airspace) .....	59
2.2.2.6.1	Environment .....	59
2.2.2.6.2	Operational Scenarios .....	60
2.2.2.7	Aircraft Needs While Performing Simultaneous Approaches .....	60
2.2.2.7.1	Environment .....	60
2.2.2.7.2	Operational Scenarios .....	61
2.2.2.8	Aircraft Needs While Operating on the Airport Surface .....	61
2.2.2.8.1	Environment .....	61
2.2.2.8.2	Operational Scenarios .....	62

2.2.3	ADS-B System-Level Performance—ATS Provider Needs for Separation and Conflict Management .....	62
2.2.3.1	ATS Provider Needs for Separation and Conflict Management in En Route and Terminal Airspace.....	65
2.2.3.2	ATS Provider Needs for Separation and Conflict Management on the Airport Surface ..	65
2.2.3.2.1	Environment .....	66
2.2.3.2.2	Operational Scenario.....	66
2.2.3.2.3	Requirements .....	66
2.2.3.3	ATS Conformance Monitoring Needs .....	67
2.2.3.3.1	Operational Scenario (Parallel Runway Monitoring) .....	67
2.2.3.3.2	Requirements .....	67
<b>3</b>	<b>ADS-B SYSTEM DEFINITION AND FUNCTIONAL REQUIREMENTS.....</b>	<b>69</b>
3.1	System Scope and Definition of Terms .....	69
3.2	ADS-B System Description .....	72
3.2.1	Context Level Description .....	72
3.2.1.1	System Level.....	72
3.2.1.2	Subsystem Level .....	73
3.2.1.3	Functional Level .....	77
3.2.2	Participant Architecture Examples.....	77
3.2.3	Equipment Classifications.....	78
3.2.3.1	Interactive Aircraft/Vehicle ADS-B Subsystems (Class A) .....	79
3.2.3.2	Broadcast-Only Subsystems (Class B) .....	80
3.2.3.3	Ground Receive-Only Subsystems (Class C) .....	82
3.3	System Requirements.....	82
3.3.1	Surveillance Coverage .....	82
3.3.2	Information Exchange Requirements By Equipment Class .....	84
3.3.3	ADS-B Data Exchange Requirements .....	88
3.3.3.1	Report Accuracy, Update Period, and Acquisition Range.....	88
3.3.3.1.1	State Vector Report Acquisition, Update Interval, and Acquisition Range.....	88
3.3.3.1.2	Mode-Status Acquisition, Update Interval, and Acquisition Range.....	93
3.3.3.1.3	Air Referenced Velocity Acquisition, Update Interval, and Acquisition Range.....	94
3.3.3.1.4	Target State and Trajectory Change Report Acquisition, Update Interval, and Acquisition Range .....	96
3.3.3.2	State Vector Report Latency and Report Time Error Requirements .....	98
3.3.3.2.1	Latency Definitions .....	99
3.3.3.2.2	State Vector Latency Requirements.....	100
3.3.4	ADS-B Network Capacity .....	100
3.3.4.1	High Density.....	101
3.3.4.2	Low Density.....	102
3.3.5	ADS-B Medium.....	103
3.3.6	ADS-B System Quality of Service.....	103
3.3.6.1	Required Monitoring Performance .....	103
3.3.6.2	Failure Mode and Availability Considerations .....	104
3.3.6.3	ADS-B Availability Requirements .....	105
3.3.6.4	ADS-B Continuity of Service .....	106
3.3.6.5	ADS-B Integrity.....	107
3.4	ADS-B Messages And Reports.....	107
3.4.1	Report Assembly Design Considerations.....	107
3.4.2	ADS-B Message Exchange Technology Considerations in Report Assembly .....	108
3.4.3	State Vector Report.....	109
3.4.3.1	Air/Ground State.....	110
3.4.3.1.1	Determination of Air/Ground State .....	110

3.4.3.1.2	Effect of Air/Ground State.....	112
3.4.3.2	SV Report Update Requirements.....	112
3.4.3.3	Time of Applicability (TOA) Field for SV Report.....	113
3.4.3.4	Horizontal Position.....	114
3.4.3.5	Horizontal Position Valid Field.....	114
3.4.3.6	Geometric Altitude Field.....	114
3.4.3.7	Geometric Altitude Valid Field.....	114
3.4.3.8	Geometric Horizontal Velocity.....	115
3.4.3.9	Airborne Horizontal Velocity Valid Field.....	115
3.4.3.10	Ground Speed While On the Surface Field.....	115
3.4.3.11	Surface Ground Speed Valid Field.....	115
3.4.3.12	Heading While On the Surface Field.....	116
3.4.3.13	Heading Valid Field.....	116
3.4.3.14	Pressure Altitude Field.....	116
3.4.3.15	Pressure Altitude Valid Field.....	116
3.4.3.16	Vertical Rate Field.....	117
3.4.3.17	Vertical Rate Valid Field.....	117
3.4.3.18	Navigation Integrity Category (NIC) Field.....	117
3.4.3.19	Report Mode Field.....	117
3.4.4	Mode Status Report.....	118
3.4.4.1	MS Report Update Requirements.....	120
3.4.4.2	Time of Applicability (TOA) Field for MS Report.....	120
3.4.4.3	ADS-B Version Number.....	120
3.4.4.4	Call Sign Field.....	120
3.4.4.5	Emitter Category Field.....	121
3.4.4.6	A/V Length and Width Codes.....	121
3.4.4.7	Mode-Status Data Available Field.....	122
3.4.4.8	Emergency/Priority Status Field.....	122
3.4.4.9	Capability Class (CC) Codes Field.....	122
3.4.4.9.1	TCAS/ACAS Installed and Operational.....	123
3.4.4.9.2	CDTI Traffic Display Capacity.....	123
3.4.4.9.3	Service Level of Transmitting A/V.....	123
3.4.4.9.4	ARV Report Capability Flag.....	124
3.4.4.9.5	TS Report Capability Flag.....	124
3.4.4.9.6	TC Report Capability Level.....	124
3.4.4.9.7	Reporting ADS-B Reference Position Flag.....	124
3.4.4.9.8	Other Capability Codes.....	124
3.4.4.10	Operational Mode (OM) Parameters.....	125
3.4.4.10.1	TCAS/ACAS Resolution Advisory Active Flag.....	125
3.4.4.10.2	IDLE Switch Active Flag.....	125
3.4.4.10.3	Receiving ATC Services Flag.....	125
3.4.4.10.4	Other Operational Mode Codes.....	125
3.4.4.11	Navigation Accuracy Category for Position (NAC <sub>p</sub> ) Field.....	125
3.4.4.12	Navigation Accuracy Category for Velocity (NAC <sub>v</sub> ) Field.....	126
3.4.4.13	Surveillance Integrity Level (SIL) Field.....	126
3.4.4.14	(Reserved for) BAQ Field.....	126
3.4.4.15	NIC <sub>baro</sub> Field.....	126
3.4.4.16	True/Magnetic Heading Flag.....	127
3.4.4.17	Vertical Rate Type Field.....	127
3.4.4.18	(Reserved for) Flight Mode Specific Data Field.....	127
3.4.5	On-Condition Reports.....	127
3.4.6	Air Referenced Velocity (ARV) Report.....	128
3.4.6.1	Conditions for Transmitting ARV Report Elements.....	128

3.4.6.2	ARV Report Update Requirements.....	129
3.4.6.3	Time of Applicability (TOA) Field for ARV Report.....	129
3.4.6.4	Airspeed Field.....	129
3.4.6.5	Airspeed Type and Validity.....	129
3.4.6.6	Heading While Airborne Field.....	129
3.4.6.7	Heading Valid Field.....	129
3.4.7	Target State (TS) Report.....	130
3.4.7.1	Conditions for Transmitting TS Report Information.....	130
3.4.7.2	TS Report Update Requirements.....	131
3.4.7.3	Time of Applicability (TOA) field for TS Report.....	131
3.4.7.4	Horizontal Data Available and Horizontal Target Source Indicator Field.....	131
3.4.7.5	Target Heading Or Track Angle Field.....	131
3.4.7.6	Target Heading/Track Indicator Field.....	132
3.4.7.7	(Reserved for) Heading/Track Capability Field.....	132
3.4.7.8	Horizontal Mode Indicator.....	132
3.4.7.9	(Reserved for) Horizontal Conformance.....	132
3.4.7.10	Vertical Data Available and Vertical Target Source Indicator Field.....	133
3.4.7.11	Target Altitude Field.....	133
3.4.7.12	Target Altitude Type Field.....	134
3.4.7.13	Target Altitude Capability Field.....	134
3.4.7.14	Vertical Mode Indicator.....	134
3.4.7.15	(Reserved for) Vertical Conformance Field.....	134
3.4.8	Trajectory Change (TC+0, TC+n) Reports.....	135
3.4.8.1	Conditions for Transmitting Trajectory Change Report Information.....	137
3.4.8.2	TC Report Update Requirements.....	138
3.4.8.3	Time of Applicability (TOA) Field for TC Report.....	138
3.4.8.4	TC Report Sequence Number.....	139
3.4.8.5	TC Report Cycle Number.....	139
3.4.8.6	(Reserved for ) Trajectory Change Management Indicator (TCMI).....	140
3.4.8.7	Time To Go (TTG) Field in TC Reports.....	140
3.4.8.8	Horizontal Data Available and Horizontal TC Type.....	140
3.4.8.9	TC Latitude.....	144
3.4.8.10	TC Longitude.....	144
3.4.8.11	Turn Radius.....	145
3.4.8.12	Track to TCP.....	145
3.4.8.13	Track from TCP.....	145
3.4.8.14	(Reserved for) Horizontal Conformance.....	145
3.4.8.15	Horizontal Command/Planned Flag.....	146
3.4.8.16	Vertical Data Available and Vertical TC Type.....	146
3.4.8.17	TC Altitude.....	147
3.4.8.18	TC Altitude Type.....	147
3.4.8.19	(Reserved for) Altitude Constraint Type.....	147
3.4.8.20	(Reserved for) Able/Unable Altitude Constraint.....	147
3.4.8.21	(Reserved for) Vertical Conformance.....	147
3.4.8.22	Vertical Command/Planned Flag.....	148
3.4.8.23	TC Report Management.....	148
3.4.8.23.1	Transmit Subsystem TC Report Management.....	149
3.4.8.23.2	Receive Subsystem TC Report Management.....	149
3.5	ADS-B Subsystem Requirements.....	150
3.5.1	Aircraft/Vehicle Interactive Subsystem Requirements.....	150
3.5.1.1	Onboard Required Data Sources.....	150
3.5.1.1.1	Air Data Source.....	150
3.5.1.1.2	Geometric Navigation System.....	151

3.5.1.1.3	Flight Mode Status Data Input Devices .....	152
3.5.1.1.4	Subsystem Control Logic .....	152
3.5.1.2	Required Data Sources .....	152
3.5.1.3	Onboard Data Sinks .....	153
3.5.1.3.1	ADS-B Operational Applications .....	153
3.5.1.3.2	TCAS Enhancements .....	153
3.5.1.4	External Data Sinks .....	153
3.5.1.5	Levels of Service .....	153
3.5.1.6	Co-Site Interference Considerations .....	154
3.5.1.7	Environmental Considerations .....	154
3.5.1.8	Subsystem Reliability .....	154
3.5.2	Broadcast-Only Subsystem Requirements .....	154
3.5.2.1	Onboard Required Data Sources .....	155
3.5.2.1.1	Air Frame Reference Data Source .....	155
3.5.2.1.2	Geometric Navigation System .....	155
3.5.2.1.3	Mode Status Data Input Devices .....	156
3.5.2.1.4	Subsystem Control Logic .....	156
3.5.2.2	Aircraft Onboard Data Sinks .....	157
3.5.2.3	Levels of Service .....	157
3.5.2.4	Co-Site Interference Considerations .....	157
3.5.2.5	Environmental Considerations .....	157
3.5.2.6	Subsystem Reliability .....	157
3.5.3	Ground Receive-Only Subsystem Requirements .....	158
3.6	ADS-B Functional Level Requirements .....	158
3.6.1	Required Message Generation Function .....	158
3.6.1.1	Input Interface Sub-function .....	159
3.6.1.2	Input Interface Control/Processing Sub-function .....	159
3.6.2	Required Message Exchange Function .....	159
3.6.2.1	Modulator/Transmitter Sub-function .....	160
3.6.2.2	Transmit/Receive Antenna Sub-functions .....	160
3.6.2.3	Receiver/Demodulator Sub-function .....	160
3.6.3	Required Report Assembler Function .....	160
3.6.3.1	Decoder/Message Processing Sub-function .....	161
3.6.3.2	Report Assembly Sub-function .....	161
3.6.3.3	Output Interface Sub-function .....	162
3.6.4	Required Report Output Control Function .....	162
<b>4</b>	<b>PROCEDURES FOR REQUIREMENT VERIFICATION .....</b>	<b>163</b>
	<b>MEMBERSHIP .....</b>	<b>189</b>

## Appendices

Appendix A	Acronyms
Appendix B	Definition of Terms
Appendix C	Bibliography and References
Appendix D	Near-Term ADS-B Applications
Appendix E	Other Applications
Appendix F	Efficient Spectrum Utilization
Appendix G	Design Tradeoff Considerations
Appendix H	Receive Antenna Coverage Constraints
Appendix I	Integrity Considerations for ADS-B Applications
Appendix J	Accuracy and Update Period Analysis
Appendix K	Latency and Report Time Error Data
Appendix L	Track Acquisition and Maintenance Requirements
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 ( $NAC_v$ )

## Table of Figures

<u>Figure 1-1:</u> Relationship Between ADS-B MASPS And Other SC-186 Documents .....	1
<u>Figure 1-2:</u> Functional Relationship between ADS-B and Surveillance Applications .....	4
<u>Figure 1-3:</u> ATS Ground Surveillance Transition Configuration .....	14
<u>Figure 1-4:</u> Potential ATS Ground Surveillance Configuration .....	16
<u>Figure 2-1:</u> Position Reference Point Definition.....	33
<u>Figure 2-2(a):</u> Current TCP Information, As Conveyed With SV and TS Reports. ....	45
<u>Figure 2-2(b):</u> Current TCP, As Conveyed With SV and TC+0 Reports. ....	46
<u>Figure 2-3:</u> Air-To-Air Capabilities Enabled By ADS-B Equipage Classes .....	54
<u>Figure 3-1:</u> Relationship of MASPS Operational Requirements to ADS-B System Requirements .....	70
<u>Figure 3-2:</u> Illustrative ADS-B System Level Context Diagram .....	74
<u>Figure 3-3:</u> ADS-B Subsystem Level Context Diagram for ADS-B System .....	75
<u>Figure 3-4:</u> ADS-B Functional Level Context Diagram for Aircraft Interactive Subsystem .....	76
<u>Figure 3-5:</u> Example of A/C Pair Supporting Aid to Visual Acquisition and Conflict Avoidance Applications.....	77
<u>Figure 3-6:</u> Example of A/C Pair Capable of Supporting Free Flight Applications .....	78
<u>Figure 3-7:</u> Example of ADS-B Support of Ground ATS Applications .....	79
<u>Figure 3-8:</u> Peak Traffic Based on Los Angeles Basin 2020 Scenario And Assumed Surface Traffic .....	102
<u>Figure 3-9:</u> GNSS/ADS-B Surveillance/Navigation Failure Recovery Modes .....	106
<u>Figure 3-10(a):</u> Meaning of Fields for Horizontal TC Types 1 and 2.....	142
<u>Figure 3-10(b):</u> Meaning of Fields for Horizontal TC Types 3 and 4. ....	143
<u>Figure 3-10(c):</u> Meaning of Fields for Horizontal TC Type 5.....	144
<u>Figure D-1</u> Functional Relationship between ADS-B and the CDTI .....	D-2
<u>Figure D-2</u> The ITC Concept as Currently Authorized .....	D-6
<u>Figure D-3</u> Illustration of the “Establish Interval” Procedure .....	D-8
<u>Figure G-1</u> Latitude Standard Deviation Vs. Number of Bits in Report for Expected NAV Accuracies. G-3	
<u>Figure G-2</u> Incremental Increase in Uncertainty of Along Track Position Due to Total Time Uncertainty, $\sigma_t = 280$ ms.....	G-4
<u>Figure G-3</u> Implications of Full Vs. Segmented State Vector Reports.....	G-5
<u>Figure G-4</u> Multipath Relationships .....	G-10
<u>Figure G-5a</u> Smooth Earth Reflection Co-efficient .....	G-10
<u>Figure G-5b</u> Typical Aircraft Antenna Pattern .....	G-10
<u>Figure G-6</u> Air-Ground Relative Multipath Levels for a Smooth and a Rough Surface .....	G-11
<u>Figure G-7</u> Air-Air Multipath Level (Specular) .....	G-12
<u>Figure G-8</u> Air-Air Multipath Level Relative to Direct Level for a Rough Surface .....	G-12
<u>Figure G-9</u> Air-Air Multipath Delay.....	G-14
<u>Figure H-1</u> Encounter Dynamic Relationships .....	H-2
<u>Figure H-2</u> Crossing Encounter with 45 Degree Target Bearing Angle.....	H-3
<u>Figure H-3</u> Crossing Encounter with 90 Degree Target Bearing Angle.....	H-3
<u>Figure H-4</u> Constant Alert Coverage for a) $v = 600$ , $u = 600$ (solid curve), and b) $v = 300$ , $u = 600$ kts (dotted curve).....	H-5
<u>Figure H-5</u> Normalized Comparison of Range Squared Variation for a) $v = 600$ (solid curve), $u = 600$ and b) $v = 300$ and $u = 600$ kts (dotted curve).....	H-6
<u>Figure H-6</u> Comparison of Composite and Forward Only Constant Alert Time Antenna Patterns in dB (No Normalization of Peak Gain).....	H-6
<u>Figure H-7</u> Half Beamwidth Variation with Normalized Speed of Potential Threat.....	H-9
<u>Figure H-8</u> Relative Gain of Matched Antenna as a Function of Normalized Threat Speed.....	H-9
<u>Figure J-1</u> Limitations.....	J-3

<u>Figure J-2</u> Barometric vs. Geometric Altitude: Summary .....	J-4
<u>Figure J-3</u> Barometric Pressure Error Gradient Example 2/8/94, Akron, CO 18:00 GMT (Temperature Inversion) .....	J-5
<u>Figure J-4:</u> Altitude Conflict Scenario Sample Path .....	J-6
<u>Figure J-5:</u> Monte Carlo Simulation Results.....	J-6
<u>Figure J-6</u> Profile of Typical Bank Angles During Turn .....	J-8
<u>Figure J-7</u> Use of Bank Angle/Turn Rate: Effect on Conflict Prediction for a Maneuvering Intruder.....	J-9
<u>Figure J-8</u> Use of Bank Angle/Turn Rate: Effect on False Alarms for Linear, Head-On Encounter .....	J-10
<u>Figure J-9</u> Latency and latency error .....	J-11
<u>Figure J-10</u> Example of the Effect of Random Report Time Error on Warning Time for a Maneuvering Intruder .....	J-12
<u>Figure J-11</u> Acceptable Surveillance Delays as a Function of Warning Time .....	J-15
<u>Figure J-12</u> Future Collision Avoidance Scenario Altitude = 2,000 ft (Both Aircraft) .....	J-16
<u>Figure J-13</u> Collision Avoidance Sensitivity to Position, Velocity Errors .....	J-16
<u>Figure J-14</u> Collision Avoidance: Sensitivity to Report Update Period, Receipt Probability .....	J-17
<u>Figure J-15</u> Update Period Requirements Analysis .....	J-18
<u>Figure J-16</u> Altitude Conflict Scenario .....	J-19
<u>Figure J-17</u> Altitude Conflict: Warning Time Sensitivity to Altitude, Altitude Rate Errors.....	J-19
<u>Figure J-18.</u> Scenarios Used to Assess Alarm Rate .....	J-20
<u>Figure J-19</u> Sensitivity to Errors In Position and Velocity .....	J-21
<u>Figure J-20</u> Advisory Rate, US Database, Altitude Layer 3.....	J-23
<u>Figure J-21</u> Delayed Alert Rate, Simulated Collision Database, Altitude Layer 3.....	J-24
<u>Figure J-22</u> Free Flight Conflict Scenario.....	J-26
<u>Figure J-23</u> Free Flight Conflict Sensitivity to Position and Velocity Errors.....	J-26
<u>Figure J-24</u> Free Flight Conflict Sensitivity to Report Update Period, Probability of Receipt .....	J-27
<u>Figure J-25</u> Free Flight–False Alarm Scenario .....	J-27
<u>Figure J-26</u> Free Flight–False Alarms with Perfect Data (T=1s).....	J-28
<u>Figure J-27</u> Free Flight False Alarm Sensitivity to Position and Velocity Errors .....	J-28
<u>Figure J-28</u> Update Period Requirements, Free Flight.....	J-30
<u>Figure J-29</u> 1,000 ft Independent Parallel Runway Blunder Scenario.....	J-31
<u>Figure J-30</u> 1,000 ft Independent Parallel Runway: Warning Time Sensitivity to Position, Velocity Errors.....	J-31
<u>Figure J-31</u> 1,000 ft Independent Parallel Runway Warning Time Sensitivity to Update Period, Probability of Receipt .....	J-32
<u>Figure J-32</u> 1,000 ft Independent Parallel Approach False Alarm Geometry.....	J-33
<u>Figure J-33</u> 1k ft Independent Parallel Approach False Alarm Rate .....	J-34
<u>Figure J-34</u> 2,500 ft Independent Parallel Runway: Sensitivity to Position, Velocity Errors .....	J-35
<u>Figure J-35</u> 2,500 ft Independent Parallel Runway: Sensitivity to Report Update Period, Pr(r) .....	J-36
<u>Figure J-36</u> 2,500 ft Independent Runway False Alarm Scenario: Sensitivity to Position, Velocity Errors.....	J-36
<u>Figure J-37</u> Update Period Requirements, 1000 ft Independent Parallel Runways .....	J-38
<u>Figure J-38</u> Update Period Requirements, 2500 ft Independent Parallel Runways .....	J-38
<u>Figure J-39</u> Scenario for Analysis of PRM.....	J-39
<u>Figure J-40</u> Simulation Results for Fixed Alert Threshold (10 Sec) .....	J-42
<u>Figure J-41</u> Simulation Results for Constant False Alert Rate (Different Thresholds) .....	J-43
<u>Figure J-42</u> Surface Scenario 2—Blind Taxi .....	J-44
<u>Figure J-43</u> Accordion Concept .....	J-45
<u>Figure J-44</u> Separation vs. Time with 100 m Rolling Separation, 2 s Total Data Latency .....	J-46
<u>Figure J-45</u> Range at Which Braking Detected, 125 m Rolling Separation, as a Function of Position, Velocity Error .....	J-47
<u>Figure J-46</u> False Alarm Rates, 125 m Rolling Separation.....	J-48
<u>Figure J-47</u> Required Received Report Update Period,125 m Rolling Separation .....	J-48
<u>Figure J-48</u> Runway Incursion Warning Time Sensitivity to Update Period (95%) .....	J-50

<u>Figure J-49</u> Relationship between Table 2-7 and Table 3-2 .....	J-51
<u>Figure J-50</u> Example: Horizontal Position Error .....	J-51
<u>Figure L-1</u> Probability of Update Within 3 Sec Interval vs. Single Message Reception Probability for Several Broadcast Intervals .....	L-9
<u>Figure L-2</u> Required Probability of Message Decode vs. Twice the Required Update Interval for 99% Confidence Track is Updated Within Twice the Update Interval .....	L-10
<u>Figure L-3</u> Probability of Acquiring Multiple Message Types for Segmented State Vector Design with $t_s=0.25s$ and Augmenting Messages Interleaved on a $T_s= 5$ sec Basis .....	L-11
<u>Figure L-4</u> Probability of Acquiring Augmenting Message for Full State Vector Plus Mode Status Design for $t_f=3$ sec and 1 sec with Augmenting Message Interleaved on a $T_s= 6$ sec Basis .....	L-13
<u>Figure N-1</u> TS Report and TC Report Information.....	N-4
<u>Figure N-2</u> Aircraft Control States.....	N-5
<u>Figure N-3</u> Constant Vertical Speed Climb at Constant Heading to MCP/FCU Selected Altitude .....	N-9
<u>Figure N-4</u> Intercept Course to FMS Flight Plan at Constant Altitude.....	N-10
<u>Figure N-5(a)</u> FMS Descent with Intermediate MCP/FCU Selected Altitude.....	N-12
<u>Figure N-5(b)</u> FMS Descent with MCP/FCU Selected Altitude = FMS Target Altitude.....	N-13
<u>Figure N-6</u> Radius to Fix Turn.....	N-16
<u>Figure N-7</u> Fly-by Turn .....	N-16
<u>Figure N-8</u> Constant Vertical Speed Climb and Constant Heading to Intercept an FMS Flight Plan ...	N-20
<u>Figure N-9</u> Geodesic Path to Fix Lateral Transition.....	N-23
<u>Figure N-10</u> Fly-By Turn Transition with Turn Start and Turn Endpoints shown.....	N-24
<u>Figure N-11</u> Direct to ABC Lateral Transition Example.....	N-25
<u>Figure N-12</u> Direct to Fly-By Lateral Turn Transition .....	N-26
<u>Figure N-13</u> Example Scenario for TCMI Intent Resequencing .....	N-35
<u>Figure N-14</u> RNP Lateral Conformance Monitoring For Intent Validation .....	N-37
<u>Figure N-15</u> Vertical Path Conformance Region for Descent Example .....	N-38
<u>Figure O-1</u> Required 95th percentile update intervals for State Vector (SV) and intent (TS & TC) reports.....	O-3
<u>Figure O-2</u> Encounter Parameters for Worst Case Closure Geometry .....	O-5
<u>Figure O-3</u> Encounter Parameters for Less Severe Closure Geometry .....	O-5
<u>Figure P-1</u> Passing Parked Aircraft.....	P-1
<u>Figure P-2</u> Runway Line-up.....	P-1
<u>Figure P-3</u> Passing Taxiing Aircraft .....	P-1
<u>Figure P-4</u> Sample synthetic Vision View .....	P-1
<u>Figure Q-1</u> Wind Effects on Heading-Referenced Flight Modes .....	Q-2
<u>Figure Q-2</u> Drift Due to Ramp Cross Wind.....	Q-3

## Table of Tables

Table 2-1: Dimensions of Defining Rectangle for Position Reference Point. ....	32
Table 2-2: Navigation Integrity Categories (NIC). ....	37
Table 2-3: Navigation Accuracy Categories for Position (NAC <sub>P</sub> ). ....	39
Table 2-4: Navigation Accuracy Categories for Velocity (NAC <sub>V</sub> ). ....	40
Table 2-5: Surveillance Integrity Level (SIL) Encoding. ....	41
Table 2-6: Possible Future Encoding for Barometric Altitude Quality. ....	41
Table 2-7: Expected Information Needed to Support Selected ADS-B Applications .....	50
Table 2-8: Summary of A/V-to-A/V Performance Assumptions for Support of Indicated Applications. 51	
Table 2-9(a): Summary of Expected ATS Provider Surveillance and Conflict Management Current Capabilities for Sample Scenarios .....	63
Table 2-9(b): Additional Expected Capabilities Appropriate for ADS-B Supported Sample Scenarios..	63
Table 3-1: Subsystem Classes and Their Features .....	81
Table 3-2(a): Operational Range and Normalized Transmit/Receive Parameters by Interactive Aircraft Equipage Class .....	84
Table 3-2(b) Interoperability Ranges in NM for Aircraft Equipage Class Parameters Given in Table 3-2(a).....	84
Table 3-3(a): Interactive Aircraft/Vehicle Equipage Type Operational Capabilities .....	86
Table 3-3(b): Broadcast and Receive Only Equipage Type Operational Capabilities.....	87
Table 3-4(a): SV Accuracy, Update Interval, and Acquisition Range Requirements.....	90
Table 3-4(b): MS Accuracy and Acquisition Range Requirements.....	93
Table 3-4(c) Summary of Air Referenced Velocity Report Acquisition Range and Update Interval Requirements .....	95
Table 3-4(d): Summary of TS Report Acquisition Range and Update Interval Requirements.....	97
Table 3-4(e): Summary of TC Report Acquisition Range and Update Interval Requirements .....	98
Table 3-5: Number of A/V and Range Distribution.....	102
Table 3-6: State Vector Report Definition.....	109
Table 3-7: SV Report Mode Values.....	117
Table 3-8: Mode-Status (MS) Report Definition.....	119
Table 3-9: ADS-B Version Number .....	120
Table 3-10: Aircraft Size (Length and Width) Codes.....	122
Table 3-11: Emergency/Priority Status Encoding .....	122
Table 3-12: ARV Report Capability Flag .....	124
Table 3-13: TS Report Capability Flag.....	124
Table 3-14: TC Report Capability Levels.....	124
Table 3-15: Air Referenced Velocity (ARV) Report Definition. ....	128
Table 3-16: Airspeed Type Encoding .....	129
Table 3-17: Target State (TS) Report Definition. ....	130
Table 3-18: Horizontal Data Available and Horizontal Target Source Indicator Field Values .....	131
Table 3-19: Horizontal Mode Indicator Values .....	132
Table 3-20: Vertical Data Available and Vertical Target Source Indicator Field Values .....	133
Table 3-21: Target Altitude Type Values. ....	134
Table 3-22: Target Altitude Capability Field Values.....	134
Table 3-23: Vertical Mode Indicator Values .....	134
Table 3-24: Trajectory Change (TC) Report Definition. ....	136
Table 3-25: Horizontal TC Type Encoding and Horizontal TC Report Elements Required For Each Horizontal TC Type .....	141
Table 3-26: Vertical TC Report Elements For Each Vertical TC Type.....	146
Table 3-27: TCP Altitude Type Encoding. ....	147

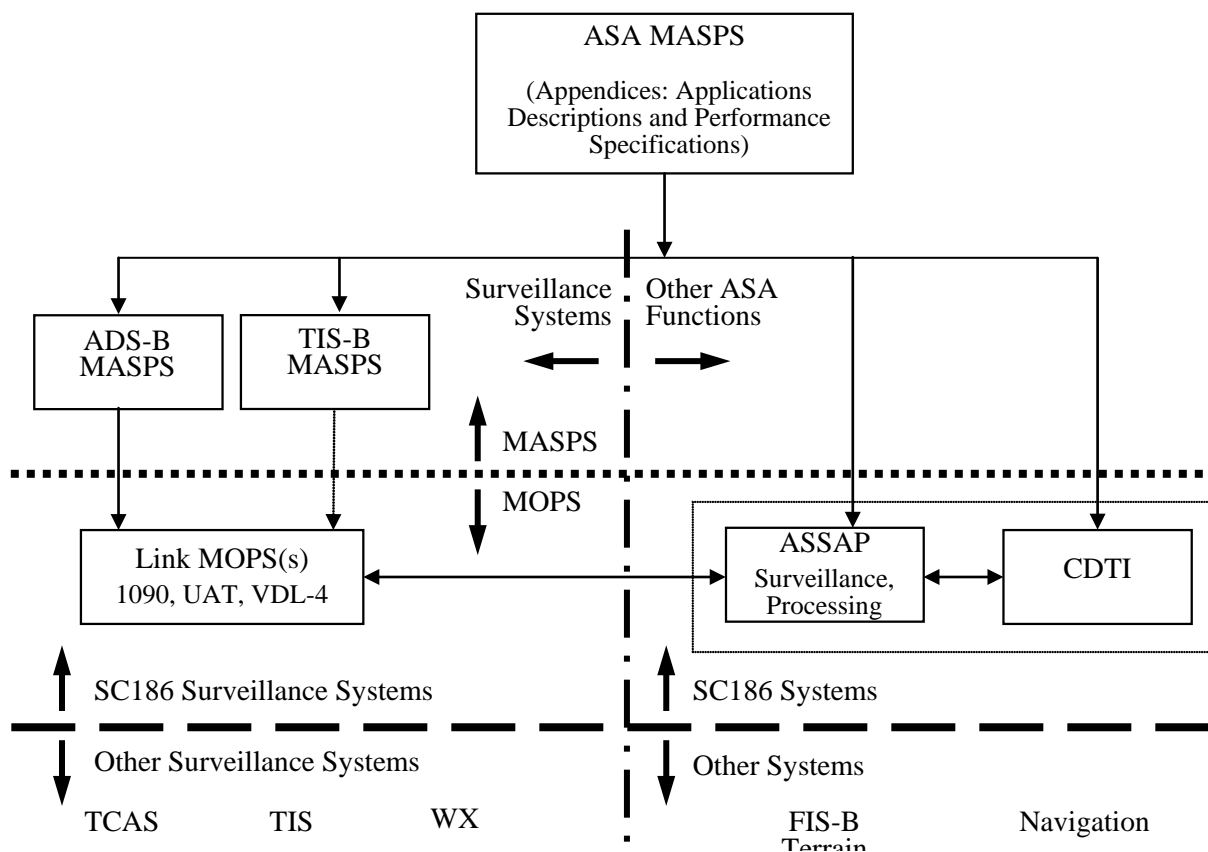
<u>Table D-1</u>	Potential Near-Term ADS-B Cockpit Applications .....	D-3
<u>Table D-2</u>	Potential Near-Term ADS-B ATS Surveillance Applications.....	D-14
<u>Table E-1</u>	Other ADS-B Applications .....	E-5
<u>Table J-1</u>	Effects of Latency .....	J-13
<u>Table J-2</u>	Report Update Period, Update Probability Values Which Achieve Desired Warning Time for Future Collision Avoidance .....	J-17
<u>Table J-3</u>	Report Update Period and Report Update Probability Simulation Values for Free Flight .....	J-29
<u>Table J-4</u>	Simulation Update Period, Update Probability Combinations, Independent Parallel Approach.....	J-37
<u>Table J-5</u>	Required Range At Alert.....	J-46
<u>Table K-1</u>	Latency Budget.....	K-1
<u>Table L-1</u>	Summary of Message Probabilities of Correct Decode Required for Each Design Alternative in Support of Desired Operational Capabilities .....	L-13
<u>Table M-1</u>	AILS On-Condition Report Definition .....	M-1
<u>Table M-2</u>	Advanced Operations On-Condition Report Definition .....	M-1
<u>Table M-3</u>	Advanced Approach Spacing On-Condition Report Definition .....	M-2
<u>Table N-1</u>	Target State Report .....	N-7
<u>Table N-2</u>	Target State Report Elements for Figure N-3 .....	N-9
<u>Table N-3</u>	Target State Report Elements for Figure N-4 .....	N-10
<u>Table N-4</u>	Trajectory Change Report.....	N-14
<u>Table N-5</u>	Trajectory Change Report Elements for Figure N-4 .....	N-18
<u>Table N-6</u>	Trajectory Change Report Elements for Figure N-5a.....	N-19
<u>Table N-7(a)</u>	Trajectory Change Report Elements for Figure N-8 (Fully Equipped Aircraft) .....	N-21
<u>Table N-7(b)</u>	Trajectory Change Report Elements for Figure N-8 (Partially Equipped Aircraft).....	N-22
<u>Table N-8</u>	ADS-B Update Requirements for Intent Reporting.....	N-30
<u>Table N-9</u>	Trajectory Change Management Indicator (TCMI) Values.....	N-33
<u>Table P-1</u>	Design of Data Classes.....	P-4
<u>Table P-2</u>	Size Code Bit Allocation.....	P-4
<u>Table P-3</u>	Code Definition .....	P-4
<u>Table P-4</u>	Makes and Modes Considered .....	P-5
<u>Table R-1</u>	Determining $NAC_V$ If $HFOM_R$ and $VFOM_R$ Are Provided.....	R-1
<u>Table R-2</u>	Determining $NAC_V$ From a GNSS Receiver Operating in LAAS or WAAS Mode.....	R-2
<u>Table R-3</u>	Determining $NAC_V$ When Differential GNSS Corrections Are Not Available.....	R-2
<u>Table R-4</u>	Scale Parameter Determination.....	R-3
<u>Table R-5</u>	$NAC_V$ Determination, LAAS and WAAS Modes .....	R-4
<u>Table R-6</u>	$NAC_V$ Determination, Autonomous GPS Mode.....	R-5

## 1 Purpose and Scope

### 1.1 Introduction

This document contains Minimum Aviation System Performance Standards (MASPS) for Automatic Dependent Surveillance-Broadcast (ADS-B). These standards specify operational characteristics that should be useful to designers, manufacturers, installers, service providers and users of an ADS-B system intended for operational use on an international basis. This document provides a view of the system-wide operational use of ADS-B, but does not describe a specific technical implementation or design architecture meeting the operational and technical characteristics defined herein.

The diagram in [Figure 1-1](#) shows the relationships between the ADS-B MASPS and other SC-186 documents, such as the ASA MASPS and the 1090 MHz extended squitter (1090ES) Link Minimum Operational Performance Standards (MOPS). [Figure 1-1](#) also shows the functions under the auspices of SC-186 and those functions outside the scope of SC-186. The ADS-B MASPS accepts system level requirements allocated to the ADS-B link function and derives lower level link specific requirements allocated to the various link subsystems MOPS documents.



**Figure 1-1: Relationship Between ADS-B MASPS And Other SC-186 Documents**