RTCA Special Committee 186, Working Group 3

ADS-B 1090 MOPS, Revision A

Meeting #15

Draft #2 of A Matrix to Compare the Structure of DO-260 versus DO-260A

Presented by Gary Furr

SUMMARY

This is the 2nd Draft of a matrix which is intended to assist reviewers of the original DO-260 versus the "to-be-approved" DO-260A, and manufacturers who may have based test procedures and documentation on the original DO-260, to better understand where sections of the two documents differ. This matrix will evolve as all sections 1 through 4 become more clearly defined in DO-260A.

DO-260			DO-260A	
Requirements Section	**Section Title**	**State in DO-260A**	**Requirements Section**	**Section Title**
1.0	Purpose and Scope		1.0	Purpose and Scope
1.1	Introduction		1.1	Introduction
1.2	System Overview		1.2	System Overview
1.2.1	Definition of ADS-B	Expanded	1.2.1	Definition of ADS-B and TIS-B
1.2.2	1090 MHz ADS-B System		1.2.2	1090 MHz ADS-B System
1.2.3	ADS-B Avionics Integrity		1.2.3	ADS-B Avionics Integrity
1.2.4	1090 MHz ADS-B Subsystem Implementations		1.2.4	1090 MHz ADS-B Subsystem Implementations
1.2.4.1	Source 1090 MHz ADS-B Transmitting Subsystem		1.2.4.1	Source 1090 MHz ADS-B Transmitting Subsystem
1.2.4.1.1	Transponder-Based Subsystems		1.2.4.1.1	Transponder-Based Subsystems
1.2.4.1.2	Non-Transponder-Based Subsystems		1.2.4.1.2	Non-Transponder-Based Subsystems
1.2.4.2	User 1090 MHz ADS-B Receiving Subsystem		1.2.4.2	User 1090 MHz ADS-B Receiving Subsystem
1.2.4.2.1	Type 1 Report Assembler Function		1.2.4.2.1	Type 1 Report Assembler Function
1.2.4.2.2	Type 2 Report Assembler		1.2.4.2.2	Type 2 Report Assembler
1.2.4.3	Major Operating Characteristics		1.2.4.3	Major Operating Characteristics
1.2.5	Typical System Operation		1.2.5	Typical System Operation
1.2.6	ADS-B Message Content		1.2.6	ADS-B Message Content
1.2.7	ADS-B Report Content		1.2.7	ADS-B Report Content
1.2.7.1	State Vector Report		1.2.7.1	State Vector Report
1.2.7.2	Mode Status Report		1.2.7.2	Mode Status Report
1.2.7.3	TCP+1 Report	Replaced	1.2.7.3	Target State Report
			1.2.7.4	Air Referenced Velocity Report
1.3	Operational Applications		1.3	Operational Applications
1.3.1	General Support for Surveillance		1.3.1	General Support for Surveillance
1.3.2	Cockpit Display of Traffic Information (CDTI)		1.3.2	Cockpit Display of Traffic Information (CDTI)
1.3.2.1	Aid to Visual Acquisition		1.3.2.1	Aid to Visual Acquisition
1.3.2.2	Enhanced Traffic Situational Awareness		1.3.2.2	Enhanced Traffic Situational Awareness
1.3.3	Improvements to Aircraft-based Collision Avoidance		1.3.3	Improvements to Aircraft-based Collision Avoidance
1.3.4	Conflict Management and Airspace Deconfliction		1.3.4	Conflict Management and Airspace Deconfliction
1.3.5	ATS Conformance Monitoring		1.3.5	ATS Conformance Monitoring
1.3.5.1	Simultaneous Approaches		1.3.5.1	Simultaneous Approaches
1.3.5.2	Incursion Monitoring		1.3.5.2	Incursion Monitoring
1.3.6	Other Applications		1.3.6	Other Applications
1.4	ADS-B Functions		1.4	ADS-B Functions
1.4.1	ADS-B Message Generation Function		1.4.1	ADS-B Message Generation Function
1.4.1.1	Avionics Input Bus		1.4.1.1	Avionics Input Bus
1.4.1.2	Input Interface		1.4.1.2	Input Interface
1.4.1.3	Message Assembly/Encoder		1.4.1.3	Message Assembly/Encoder
1.4.2	ADS-B Message Exchange Function		1.4.2	ADS-B Message Exchange Function
1.4.2.1	Modulation/Transmission Subfunction		1.4.2.1	Modulation/Transmission Subfunction
1.4.2.2	Transmit/Receive/Antenna Subfunction		1.4.2.2	Transmit/Receive/Antenna Subfunction
1.4.2.3	Receiver/Demodulator Subfunction		1.4.2.3	Receiver/Demodulator Subfunction
1.4.3	ADS-B Report Assembler Function		1.4.3	ADS-B Report Assembler Function
1.4.3.1	Decoder/Report Assembly		1.4.3.1	Decoder/Report Assembly
1.4.3.2	Output Interface		1.4.3.2	Output Interface
1.4.3.3	Avionics Output Bus		1.4.3.3	Avionics Output Bus
1.5	Operational Goals		1.5	Operational Goals
1.6	Assumptions and Rationale		1.6	Assumptions and Rationale
1.7	Test Procedures		1.7	Test Procedures

DO-260			DO-260A	
Requirements Section	**Section Title**	**State in DO-260A**	**Requirements Section**	**Section Title**
1.7.1	Environmental Tests		1.7.1	Environmental Tests
1.7.2	Qualification Tests		1.7.2	Qualification Tests
1.7.3	Installed Tests		1.7.3	Installed Tests
1.8	MASPS Compliance		1.8	MASPS Compliance
1.9	Definition of Terms		1.9	Definition of Terms
2.0	Equipment Performance Requirements and Test Procedures		2.0	Equipment Performance Requirements and Test Procedures
2.1	General Requirements		2.1	General Requirements
2.1.1	Airworthiness		2.1.1	Airworthiness
2.1.2	Intended Function		2.1.2	Intended Function
2.1.3	Federal Communications Commission Rules		2.1.3	Federal Communications Commission Rules
2.1.4	Fire Protection		2.1.4	Fire Protection
2.1.5	Operation of Controls		2.1.5	Operation of Controls
2.1.6	Accessibility of Controls		2.1.6	Accessibility of Controls
2.1.7	Equipment Interfaces		2.1.7	Equipment Interfaces
2.1.8	Effects of Test		2.1.8	Effects of Test
2.1.9	Design Assurance		2.1.9	Design Assurance
2.1.10	Integration and Interoperability with a Mode S Transponder		2.1.10	Integration and Interoperability with a Mode S Transponder
2 1 11	Equipage Class Application Coverage		2 1 11	Equipage Class Application Coverage
2.1.11.1	Transmitting Subsystem		2.1.11.1	Transmitting Subsystem
2.1.11.2	Receiving Subsystem		2.1.11.2	Receiving Subsystem
2.2	Minimum Performance Standards		2.2	Minimum Performance Standards
2.2.1	Definition of Standard Conditions		2.2.1	Definition of Standard Conditions
2.2.2	Transponder Based Transmitters		2.2.2	Transponder Based Transmitters
2.2.2.1	Transponder Based TX		2.2.2.1	Transponder Based Transmitters
2.2.2.1.1	RF Peak Output Power		2.2.2.1.1	RF Peak Output Power
2.2.2.1.1.1	Class A0 TX Power		2.2.2.1.1.1	Class A0 Transponder Based Transmitter Power
2.2.2.1.1.2	Class A1 TX Power		2.2.2.1.1.2	Class A1 Transponder Based Transmitter Power
2.2.2.1.1.3	Class A2 TX Power		2.2.2.1.1.3	Class A2 Transponder Based Transmitter Power
2.2.2.1.1.4	Class A3 TX Power		2.2.2.1.1.4	Class A3 Transponder Based Transmitter Power
2.2.2.1.1.5	Class B TX Power		2.2.2.1.1.5	Class B Transponder Based Transmitter Power
2.2.2.1.2	RF Peak Power (max)		2.2.2.1.2	RF Peak Power (max)
2.2.2.2	Stand Alone TX		2.2.2.2	Stand Alone Transmitters
2.2.2.2.1	TX Frequency		2.2.2.2.1	Transmission Frequency
2.2.2.2.2	TX Spectrum		2.2.2.2.2	Transmission Spectrum
2.2.2.2.3	Modulation		2.2.2.2.3	Modulation
2.2.2.2.4	Pulse Shapes		2.2.2.2.4	Pulse Shapes
2.2.2.2.5	Message Structure		2.2.2.2.5	Message Structure
2.2.2.2.6	Pulse Intervals		2.2.2.2.6	Pulse Intervals
2.2.2.2.7	Preamble		2.2.2.2.7	Preamble
2.2.2.2.8	Data Pulses		2.2.2.2.8	Data Pulses
2.2.2.2.9	Pulse Amplitude		2.2.2.2.9	Pulse Amplitude
2.2.2.2.10	RF Peak Output Power		2.2.2.2.10	RF Peak Output Power
2.2.2.2.10.1	Class A0 RF Peak Out		2.2.2.2.10.1	Class A0 RF Peak Output Power
2.2.2.2.10.2	Class B RF Peak Out		2.2.2.2.10.2	Class B RF Peak Output Power
2.2.2.2.10.3	RF Peak Output (max)		2.2.2.2.10.3	RF Peak Output Power (maximum)
2.2.2.2.11	Unwanted Output Power		2.2.2.2.11	Unwanted Output Power
2.2.2.2.12	Broadcast Rate Capability		2.2.2.2.12	Broadcast Rate Capability
2.2.3	Broadcast Message Characteristics		2.2.3	Broadcast Message Characteristics
2.2.3.1	ADS-B Message Characteristic		2.2.3.1	ADS-B Message Characteristic

DO-260			DO-260A	
Requirements Section	**Section Title**	**State in DO-260A**	**Requirements Section**	**Section Title**
2.2.3.1.1	ADS-B Message Preamble		2.2.3.1.1	ADS-B Message Preamble
2.2.3.1.2	ADS-B Message Data Pulses		2.2.3.1.2	ADS-B Message Data Pulses
2.2.3.1.3	ADS-B Message Pulse Shape		2.2.3.1.3	ADS-B Message Pulse Shape
2.2.3.1.4	ADS-B Message Pulse Spacing		2.2.3.1.4	ADS-B Message Pulse Spacing
2.2.3.2	ADS-B Message Format Structure	Expanded	2.2.3.2	ADS-B and TIS-B Message Baseline Format and Structure
2.2.3.2.1	ADS-B Msg. Baseline Format	Reorganized	2.2.3.2.1	ADS-B Msg. Baseline Field Descriptions
2.2.3.2.1.1	ADS-B Msg. Baseline Field Description	Replaced	2.2.3.2.1.1	“DF” Downlink Format Field
2.2.3.2.1.1.1	“AA” Address Field, Announced	Moved to 2.2.3.2.1.5		
2.2.3.2.1.1.2	“CA” Capability Field (DF=17)	Moved to 2.2.3.2.1.2		
2.2.3.2.1.1.3	“CF” (DF=18)	Moved to 2.2.3.2.1.3		
2.2.3.2.1.1.4	“DF” Downlink Format Field	Moved to 2.2.3.2.1.1		
2.2.3.2.1.1.5	“ME” Message, Extended Squitter	Moved to 2.2.3.2.1.6		
2.2.3.2.1.1.6	“PI” Parity / Identity	Moved to 2.2.3.2.1.7		
			2.2.3.2.1.2	“CA” Capability Field (DF=17)
			2.2.3.2.1.3	“CF” Field (used in DF=18)
			2.2.3.2.1.4	“AF” Field (used in DF=19)
			2.2.3.2.1.5	“AA” Address Field, Announced
			2.2.3.2.1.6	“ME” Message, Extended Squitter
			2.2.3.2.1.7	“PI” Parity / Identity
2.2.3.2.2	DF=17 and 18 Format Structures	Replaced	2.2.3.2.2	Determining ADS-B and TIS-B Message Types
2.2.3.2.3	ADS-B Airborne Position Messages		2.2.3.2.3	ADS-B Airborne Position Messages
2.2.3.2.3.1	“TYPE” Subfield		2.2.3.2.3.1	“TYPE” Subfield
2.2.3.2.3.1.1	Type Code if HPL is Available	Revised	2.2.3.2.3.1.1	Type Code if Containment Radius is Available
2.2.3.2.3.1.2	Type Code if HPL is Not Available	Revised	2.2.3.2.3.1.2	Type Code if Containment Radius is Not Available
2.2.3.2.3.1.3	Special Processing for Type = 0		2.2.3.2.3.1.3	Special Processing for Type = 0
2.2.3.2.3.1.3.1	Significance of Type = 0		2.2.3.2.3.1.3.1	Significance of Type = 0
2.2.3.2.3.1.3.2	Broadcast of Type = 0		2.2.3.2.3.1.3.2	Broadcast of Type = 0
2.2.3.2.3.1.4	Type based on Hor. Position and Altitude		2.2.3.2.3.1.4	Type based on Horiz. Position and Altitude
2.2.3.2.3.2	“Surveillance Status”		2.2.3.2.3.2	“Surveillance Status”
2.2.3.2.3.3	“Single Antenna”		2.2.3.2.3.3	“Single Antenna”
2.2.3.2.3.4	“Altitude”		2.2.3.2.3.4	“Altitude”
2.2.3.2.3.4.1	“Barometric Altitude”		2.2.3.2.3.4.1	“Barometric Altitude”
2.2.3.2.3.4.2	“GNSS HAE”		2.2.3.2.3.4.2	“GNSS HAE”
2.2.3.2.3.4.3	“Altitude Encoding”		2.2.3.2.3.4.3	“Altitude Encoding”
2.2.3.2.3.5	“Time”		2.2.3.2.3.5	“Time”
2.2.3.2.3.6	“CPR Format (F)”		2.2.3.2.3.6	“CPR Format (F)”
2.2.3.2.3.7	“Encoded Latitude”		2.2.3.2.3.7	“Encoded Latitude”
2.2.3.2.3.7.1	Airborne Latitude Data Encoding		2.2.3.2.3.7.1	Airborne Latitude Data Encoding
2.2.3.2.3.7.2	Airborne Lat. Pos. Ex/Es. —Precision		2.2.3.2.3.7.2	Airborne Lat. Pos. Ex/Es. —Precision
2.2.3.2.3.7.2.1	GPS/GNSS Coupled		2.2.3.2.3.7.2.1	GPS/GNSS Coupled
2.2.3.2.3.7.2.2	Non-Coupled		2.2.3.2.3.7.2.2	Non-Coupled
2.2.3.2.3.7.3	Airborne Lat. Pos. Extrap.---Non-Precision		2.2.3.2.3.7.3	Airborne Lat. Pos. Extrap.---Non-Precision
2.2.3.2.3.7.3.1	Airborne Lat. Pos. Extrap.---Non-Precision		2.2.3.2.3.7.3.1	Airborne Lat. Pos. Extrap.---Non-Precision
2.2.3.2.3.7.3.2	Airborne Lat. Pos. Est. --- Non-Precision		2.2.3.2.3.7.3.2	Airborne Lat. Pos. Est. --- Non-Precision
2.2.3.2.3.7.4	Airborne Lat. Pos. Data Retention		2.2.3.2.3.7.4	Airborne Lat. Pos. Data Retention
2.2.3.2.3.8	“Encoded Longitude”		2.2.3.2.3.8	“Encoded Longitude”
2.2.3.2.3.8.1	Airborne Longitude Data Encoding		2.2.3.2.3.8.1	Airborne Longitude Data Encoding
2.2.3.2.3.8.2	Airborne Lon. Pos. Ex/Es --- Precision		2.2.3.2.3.8.2	Airborne Lon. Pos. Ex/Es --- Precision
2.2.3.2.3.8.2.1	GPS/GNSS Time Coupled		2.2.3.2.3.8.2.1	GPS/GNSS Time Coupled
2.2.3.2.3.8.2.2	Non-Coupled		2.2.3.2.3.8.2.2	Non-Coupled

DO-260			DO-260A	
Requirements Section	**Section Title**	**State in DO-260A**	**Requirements Section**	**Section Title**
2.2.3.2.3.8.3	Airborne Lon. Pos. Ex/Es---Non-Precision		2.2.3.2.3.8.3	Airborne Lon. Pos. Ex/Es---Non-Precision
2.2.3.2.3.8.3.1	Airborne Lon. Pos. Ex --- Non-Precision		2.2.3.2.3.8.3.1	Airborne Lon. Pos. Ex --- Non-Precision
2.2.3.2.3.8.3.2	Airborne Lon. Pos. Es --- Non-Precision		2.2.3.2.3.8.3.2	Airborne Lon. Pos. Es --- Non-Precision
2.2.3.2.3.8.4	Airborne Lon. Pos. Data Retention		2.2.3.2.3.8.4	Airborne Lon. Pos. Data Retention
2.2.3.2.4	ADS-B Surface Position Messages		2.2.3.2.4	ADS-B Surface Position Messages
2.2.3.2.4.1	“Type” Subfield		2.2.3.2.4.1	“Type” Subfield
2.2.3.2.4.1.1	Surface Pos. Type if HPL is Available		2.2.3.2.4.1.1	Surface Pos. Type if HPL is Available
2.2.3.2.4.1.2	Sur. Pos. Type if HPL is Not Available		2.2.3.2.4.1.2	Sur. Pos. Type if HPL is Not Available
2.2.3.2.4.1.3	Special Processing for Type = 0		2.2.3.2.4.1.3	Special Processing for Type = 0
2.2.3.2.4.1.3.1	Significance of Type = 0		2.2.3.2.4.1.3.1	Significance of Type = 0
2.2.3.2.4.1.3.2	Broadcast of Type = 0		2.2.3.2.4.1.3.2	Broadcast of Type = 0
2.2.3.2.4.1.4	Type based on HPL or Est. Pos. Accuracy		2.2.3.2.4.1.4	Type based on HPL or Est. Pos. Accuracy
2.2.3.2.4.2	“Movement” Subfield		2.2.3.2.4.2	“Movement” Subfield
2.2.3.2.4.3	“Status Bit for Ground Track”		2.2.3.2.4.3	“Status Bit for Ground Track”
2.2.3.2.4.4	“Ground Track”		2.2.3.2.4.4	“Ground Track”
2.2.3.2.4.5	“Time”		2.2.3.2.4.5	“Time”
2.2.3.2.4.6	“CPR” Format		2.2.3.2.4.6	“CPR” Format
2.2.3.2.4.7	“Encoded Latitude”		2.2.3.2.4.7	“Encoded Latitude”
2.2.3.2.4.7.1	Surface Latitude Data Encoding		2.2.3.2.4.7.1	Surface Latitude Data Encoding
2.2.3.2.4.7.2	Sur. Lat. Pos. Ex/Es --- Precision		2.2.3.2.4.7.2	Sur. Lat. Pos. Ex/Es --- Precision
2.2.3.2.4.7.2.1	GPS/GNSS Coupled		2.2.3.2.4.7.2.1	GPS/GNSS Coupled
2.2.3.2.4.7.2.2	Non-Coupled		2.2.3.2.4.7.2.2	Non-Coupled
2.2.3.2.4.7.3	Sur. Lat. Pos. Ex/Es---Non-Precision		2.2.3.2.4.7.3	Sur. Lat. Pos. Ex/Es---Non-Precision
2.2.3.2.4.7.3.1	Sur. Lat. Pos. Ex – Non-Precision		2.2.3.2.4.7.3.1	Sur. Lat. Pos. Ex – Non-Precision
2.2.3.2.4.7.3.2	Sur. Lat. Pos. Es – Non-Precision		2.2.3.2.4.7.3.2	Sur. Lat. Pos. Es – Non-Precision
2.2.3.2.4.7.4	Surface Lat. Pos. Data Retention		2.2.3.2.4.7.4	Surface Lat. Pos. Data Retention
2.2.3.2.4.8	Encoded Longitude		2.2.3.2.4.8	Encoded Longitude
2.2.3.2.4.8.1	Surface Longitude Data Encoding		2.2.3.2.4.8.1	Surface Longitude Data Encoding
2.2.3.2.4.8.2	Sur. Lon. Pos. Ex/Ex---Precision		2.2.3.2.4.8.2	Sur. Lon. Pos. Ex/Ex---Precision
2.2.3.2.4.8.2.1	GPS/GNSS Coupled		2.2.3.2.4.8.2.1	GPS/GNSS Coupled
2.2.3.2.4.8.2.2	Non-Coupled		2.2.3.2.4.8.2.2	Non-Coupled
2.2.3.2.4.8.3	Sur. Lon. Pos. Ex/Es---Non-Precision		2.2.3.2.4.8.3	Sur. Lon. Pos. Ex/Es---Non-Precision
2.2.3.2.4.8.3.1	Sur. Lon. Pos. Ex---Non-Precision		2.2.3.2.4.8.3.1	Sur. Lon. Pos. Ex---Non-Precision
2.2.3.2.4.8.3.2	Sur. Lon. Pos. Es---Non-Precision		2.2.3.2.4.8.3.2	Sur. Lon. Pos. Es---Non-Precision
2.2.3.2.4.8.4	Surface Lon. Pos. Data Retention		2.2.3.2.4.8.4	Surface Lon. Pos. Data Retention
2.2.3.2.5	ADS-B A/C Ident. & Type Message		2.2.3.2.5	ADS-B A/C Ident. & Type Message
2.2.3.2.5.1	“Type” Subfield		2.2.3.2.5.1	“Type” Subfield
2.2.3.2.5.2	“ADS-B Emitter Category”		2.2.3.2.5.2	“ADS-B Emitter Category”
2.2.3.2.5.3	“Character” Subfield		2.2.3.2.5.3	“Character” Subfield
2.2.3.2.6	ADS-B Airborne Velocity Message		2.2.3.2.6	ADS-B Airborne Velocity Message
2.2.3.2.6.1	Velocity Message - Subtype 1		2.2.3.2.6.1	Velocity Message - Subtype 1
2.2.3.2.6.1.1	“Type” Subfield		2.2.3.2.6.1.1	“Type” Subfield
2.2.3.2.6.1.2	“Subtype” Subfield		2.2.3.2.6.1.2	“Subtype” Subfield
2.2.3.2.6.1.3	“Intent Change Flag”		2.2.3.2.6.1.3	“Intent Change Flag”
2.2.3.2.6.1.4	“IFR Capability Flag”		2.2.3.2.6.1.4	“IFR Capability Flag”
2.2.3.2.6.1.5	“NUC-R” Subfield	Renamed	2.2.3.2.6.1.5	“NAC_V” Subfield
2.2.3.2.6.1.6	“East/West Direction Bit”		2.2.3.2.6.1.6	“East/West Direction Bit”
2.2.3.2.6.1.7	“East/West Velocity”		2.2.3.2.6.1.7	“East/West Velocity”
2.2.3.2.6.1.8	“North/South Direction Bit”		2.2.3.2.6.1.8	“North/South Direction Bit”
2.2.3.2.6.1.9	“North/South Velocity”		2.2.3.2.6.1.9	“North/South Velocity”

DO-260			DO-260A	
Requirements Section	**Section Title**	**State in DO-260A**	**Requirements Section**	**Section Title**
2.2.3.2.6.1.10	"Source Bit for Vertical Rate"		2.2.3.2.6.1.10	"Source Bit for Vertical Rate"
2.2.3.2.6.1.11	"Sign Bit for Vertical Rate"		2.2.3.2.6.1.11	"Sign Bit for Vertical Rate"
2.2.3.2.6.1.12	"Vertical Rate"		2.2.3.2.6.1.12	"Vertical Rate"
2.2.3.2.6.1.13	"Turn Indicator"	Deleted	2.2.3.2.6.1.13	"Reserved Bits"
2.2.3.2.6.1.14	Diff. from Baro. Alt. Sign Bit		2.2.3.2.6.1.14	Diff. from Baro. Alt. Sign Bit
2.2.3.2.6.1.15	Diff. From Baro. Alt.		2.2.3.2.6.1.15	Diff. From Baro. Alt.
2.2.3.2.6.2	Velocity Message – Subtype 2		2.2.3.2.6.2	Velocity Message – Subtype 2
2.2.3.2.6.2.1	"Type" Subfield		2.2.3.2.6.2.1	"Type" Subfield
2.2.3.2.6.2.2	"Subtype" Subfield		2.2.3.2.6.2.2	"Subtype" Subfield
2.2.3.2.6.2.3	"Intent Change Flag"		2.2.3.2.6.2.3	"Intent Change Flag"
2.2.3.2.6.2.4	"IFR Capability Flag"		2.2.3.2.6.2.4	"IFR Capability Flag"
2.2.3.2.6.2.5	"NUC_R"	Renamed	2.2.3.2.6.2.5	"NAC_V"
2.2.3.2.6.2.6	"East/West Direction Bit"		2.2.3.2.6.2.6	"East/West Direction Bit"
2.2.3.2.6.2.7	"East/West Velocity"		2.2.3.2.6.2.7	"East/West Velocity"
2.2.3.2.6.2.8	"North/South Direction Bit"		2.2.3.2.6.2.8	"North/South Direction Bit"
2.2.3.2.6.2.9	"North/South Velocity"		2.2.3.2.6.2.9	"North/South Velocity"
2.2.3.2.6.2.10	"Source Bit for Vertical Rate"		2.2.3.2.6.2.10	"Source Bit for Vertical Rate"
2.2.3.2.6.2.11	"Sign Bit for Vertical Rate"		2.2.3.2.6.2.11	"Sign Bit for Vertical Rate"
2.2.3.2.6.2.12	"Vertical Rate"		2.2.3.2.6.2.12	"Vertical Rate"
2.2.3.2.6.2.13	"Turn Indicator"	Deleted	2.2.3.2.6.2.13	"Reserved Bits"
2.2.3.2.6.2.14	"Diff. From Baro. Alt. Sign Bit"		2.2.3.2.6.2.14	"Diff. From Baro. Alt. Sign Bit"
2.2.3.2.6.2.15	"Diff. From Baro. Alt.		2.2.3.2.6.2.15	"Diff. From Baro. Alt.
2.2.3.2.6.3	Velocity Message – Subtype 3		2.2.3.2.6.3	Velocity Message – Subtype 3
2.2.3.2.6.3.1	"Type" Subfield		2.2.3.2.6.3.1	"Type" Subfield
2.2.3.2.6.3.2	"Subtype" Subfield		2.2.3.2.6.3.2	"Subtype" Subfield
2.2.3.2.6.3.3	"Intent Change Flag"		2.2.3.2.6.3.3	"Intent Change Flag"
2.2.3.2.6.3.4	"IFR Capability Flag"		2.2.3.2.6.3.4	"IFR Capability Flag"
2.2.3.2.6.3.5	"NUC_R"	Renamed	2.2.3.2.6.3.5	"NAC_V"
2.2.3.2.6.3.6	"Magnetic Heading Status Bit"	Renamed	2.2.3.2.6.3.6	"Heading Status Bit"
2.2.3.2.6.3.7	"Magnetic Heading"	Renamed	2.2.3.2.6.3.7	"Heading"
2.2.3.2.6.3.8	"Airspeed Type"		2.2.3.2.6.3.8	"Airspeed Type"
2.2.3.2.6.3.9	"Airspeed"		2.2.3.2.6.3.9	"Airspeed"
2.2.3.2.6.3.10	"Source Bit for Vertical Rate"		2.2.3.2.6.3.10	"Source Bit for Vertical Rate"
2.2.3.2.6.3.11	"Sign Bit for Vertical Rate"		2.2.3.2.6.3.11	"Sign Bit for Vertical Rate"
2.2.3.2.6.3.12	"Vertical Rate"		2.2.3.2.6.3.12	"Vertical Rate"
2.2.3.2.6.3.13	"Turn Indicator"	Deleted	2.2.3.2.6.3.13	"Reserved Bits"
2.2.3.2.6.3.14	"Diff. From Baro. Alt. Sign Bit"		2.2.3.2.6.3.14	"Diff. From Baro. Alt. Sign Bit"
2.2.3.2.6.3.15	"Diff. From Baro. Alt."		2.2.3.2.6.3.15	"Diff. From Baro. Alt."
2.2.3.2.6.4	Velocity Message – Subtype 4		2.2.3.2.6.4	Velocity Message – Subtype 4
2.2.3.2.6.4.1	"Type" Subfield		2.2.3.2.6.4.1	"Type" Subfield
2.2.3.2.6.4.2	"Subtype" Subfield		2.2.3.2.6.4.2	"Subtype" Subfield
2.2.3.2.6.4.3	"Intent Change Flag"		2.2.3.2.6.4.3	"Intent Change Flag"
2.2.3.2.6.4.4	"IFR Capability Flag"		2.2.3.2.6.4.4	"IFR Capability Flag"
2.2.3.2.6.4.5	"NUC_R"	Renamed	2.2.3.2.6.4.5	"NAC_V"
2.2.3.2.6.4.6	"Magnetic Heading Status Bit"	Renamed	2.2.3.2.6.4.6	"Heading Status Bit"
2.2.3.2.6.4.7	"Magnetic Heading"	Renamed	2.2.3.2.6.4.7	"Heading"
2.2.3.2.6.4.8	"Airspeed Type"		2.2.3.2.6.4.8	"Airspeed Type"
2.2.3.2.6.4.9	"Airspeed"		2.2.3.2.6.4.9	"Airspeed"
2.2.3.2.6.4.10	"Source Bit for Vertical Rate"		2.2.3.2.6.4.10	"Source Bit for Vertical Rate"
2.2.3.2.6.4.11	"Sign Bit for Vertical Rate"		2.2.3.2.6.4.11	"Sign Bit for Vertical Rate"

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2.2.3.2.6.4.12	"Vertical Rate"		2.2.3.2.6.4.12	"Vertical Rate"
2.2.3.2.6.4.13	"Turn Indicator"	Deleted	2.2.3.2.6.4.13	"Reserved Bits"
2.2.3.2.6.4.14	"Diff. From Barometric Altitude Sign Bit"		2.2.3.2.6.4.14	"Diff. From Barometric Altitude Sign Bit"
2.2.3.2.6.4.15	"Diff. From Barometric Altitude"		2.2.3.2.6.4.15	"Diff. From Barometric Altitude"
2.2.3.2.6.5	Velocity Message – Subtype 5, 6, & 7		2.2.3.2.6.5	Velocity Message – Subtype 5, 6, & 7
2.2.3.2.7	ADS-B Intent, Op. Coord., Op. Status	Revised	2.2.3.2.7	ADS-B On-Condition Messages
2.2.3.2.7.1	Aircraft Trajectory Intent Message	Replaced	2.2.3.2.7.1	Target State and Status
2.2.3.2.7.1.1	"Type" Subfield		2.2.3.2.7.1.1	"Type" Subfield
2.2.3.2.7.1.2	"Current or Next" Subfield	Replaced	2.2.3.2.7.1.2	"Subtype" Subfield
2.2.3.2.7.1.3	"Trajectory Point / Leg Type"	Replaced	2.2.3.2.7.1.3	"Target State and Status Msg (Subtype = 0)"
			2.2.3.2.7.1.3.1	Vertical Data Available/Source Indicator
			2.2.3.2.7.1.3.2	Target Altitude Type
			2.2.3.2.7.1.3.3	Backward Compatibility Flag
			2.2.3.2.7.1.3.4	Target Altitude Capability
			2.2.3.2.7.1.3.5	Vertical Mode Indicator
			2.2.3.2.7.1.3.6	Target Altitude
			2.2.3.2.7.1.3.7	Horizontal Data Available/Source Indicator
			2.2.3.2.7.1.3.8	Target Heading/Track Angle
			2.2.3.2.7.1.3.9	Target Heading/Track Indicator
			2.2.3.2.7.1.3.10	Horizontal Mode Indicator
			2.2.3.2.7.1.3.11	NAC_P
			2.2.3.2.7.1.3.12	NIC_{BARO}
			2.2.3.2.7.1.3.13	SIL
			2.2.3.2.7.1.3.14	Capability/Mode Codes
			2.2.3.2.7.1.3.15	Emergency/Priority Status
2.2.3.2.7.1.4	"TCP / TCP+1 Data Valid"	Replaced	2.2.3.2.7.1.4	Reserved for TYPE=29, Subtype > 0 Messages
2.2.3.2.7.1.5	"TCP Format"			
2.2.3.2.7.1.6	"TCP / TCP+1 Altitude"			
2.2.3.2.7.1.7	"TCP / TCP+1 Latitude"			
2.2.3.2.7.1.7.1	"TCP / TCP+1 Latitude (4D)			
2.2.3.2.7.1.7.2	"TCP / TCP+1 Latitude (3D)			
2.2.3.2.7.1.8	"TCP / TCP+1 Longitude"			
2.2.3.2.7.1.8.1	"TCP / TCP+1 Longitude (4D)			
2.2.3.2.7.1.8.2	"TCP / TCP+1 Longitude (3D)			
2.2.3.2.7.1.9	"TCP / TCP +1 Time -to- Go"			
2.2.3.2.7.2	Aircraft Operational Coordination Messages	Deleted & replaced	2.2.3.2.7.2	Aircraft Operational Status Messages
2.2.3.2.7.2.1	"Type" Subfield	Deleted & replaced	2.2.3.2.7.2.1	"Type" Subfield
2.2.3.2.7.2.2	"Subtype" Subfield	Deleted & replaced	2.2.3.2.7.2.2	"Subtype" Subfield
2.2.3.2.7.2.3	"Paired Address"	Deleted & replaced	2.2.3.2.7.2.3	"Capability Class (CC)"
			2.2.3.2.7.2.3.1	"Reserved for Service Level"
			2.2.3.2.7.2.3.2	"~TCAS"
			2.2.3.2.7.2.3.3	"CDTI Traffic Display Capability"
			2.2.3.2.7.2.3.4	"ARV Report Capability"
			2.2.3.2.7.2.3.5	"TS Report Capability"
			2.2.3.2.7.2.3.6	"TC Report Capability"
			2.2.3.2.7.2.3.7	"Position Offset Applied (POA)"
2.2.3.2.7.2.4	"Runway Threshold Speed"	Deleted & replaced	2.2.3.2.7.2.4	"Operational Mode (OM)"
			2.2.3.2.7.2.4.1	"OM Subfield Format Code"
			2.2.3.2.7.2.4.2	"TCAS/ACAS Resolution Advisory Active"
			2.2.3.2.7.2.4.3	"IDENT Switch Active"

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			2.2.3.2.7.2.4.4	"Receiving ATC Services"
2.2.3.2.7.2.5	"Roll Angle Sign Bit"	Deleted & replaced	2.2.3.2.7.2.5	"Version Number Subfield"
2.2.3.2.7.2.6	"Roll Angle"	Deleted & replaced	2.2.3.2.7.2.6	"NIC Supplement"
2.2.3.2.7.2.7	"Go Around"	Deleted & replaced	2.2.3.2.7.2.7	"NAC_P"
2.2.3.2.7.2.8	"Engine Out"	Deleted & replaced	2.2.3.2.7.2.8	"Reserved for BAQ"
2.2.3.2.7.2.9	"Not Assigned" Subfield	Deleted & replaced	2.2.3.2.7.2.9	"SIL"
			2.2.3.2.7.2.10	"NIC_{BARO}"
			2.2.3.2.7.2.11	"Aircraft Length and Width Codes"
			2.2.3.2.7.2.12	"Track Angle/Heading"
			2.2.3.2.7.2.13	"Horizontal Reference Direction"
			2.2.3.2.7.2.14	"Not Assigned" Bits
2.2.3.2.7.3	Aircraft Operational Status Message	Moved to 2.2.3.2.7.2	2.2.3.2.7.3	Reserved Type 23 Message for TEST
2.2.3.2.7.3.1	"Type" Subfield	Moved to 2.2.3.2.7.2.1		
2.2.3.2.7.3.2	"Subtype" Subfield	Moved to 2.2.3.2.7.2.2		
2.2.3.2.7.3.3	"Capability Class (CC)"	Moved to 2.2.3.2.7.2.3		
2.2.3.2.7.3.3.1	"CC-4" Subfield	Deleted & replaced		
2.2.3.2.7.3.3.2	"CC-3" Subfield	Deleted & replaced		
2.2.3.2.7.3.3.3	"CC-2" Subfield	Deleted & replaced		
2.2.3.2.7.3.3.4	"CC-1" Subfield	Deleted & replaced		
2.2.3.2.7.3.4	"Operational Mode (OM)"	Moved to 2.2.3.2.7.2.4		
2.2.3.2.7.3.4.1	"OM-4" Subfield	Deleted & replaced		
2.2.3.2.7.3.4.2	"OM-3" Subfield	Deleted & replaced		
2.2.3.2.7.3.4.3	"OM-2" Subfield	Deleted & replaced		
2.2.3.2.7.3.4.4	"OM-1" Subfield	Deleted & replaced		
2.2.3.2.7.3.5	"Not Assigned" Subfield	Moved to 2.2.3.2.7.2.14		
2.2.3.2.7.4	Reserved Type 23 Message	Moved to 2.2.3.2.7.3	2.2.3.2.7.4	Reserved Type 24 Message for Surface Status
2.2.3.2.7.5	Reserved Type 24 Message	Moved to 2.2.3.2.7.4	2.2.3.2.7.5	Reserved Type 25 Message
2.2.3.2.7.6	Reserved Type 25 Message	Moved to 2.2.3.2.7.5	2.2.3.2.7.6	Reserved Type 26 Message
2.2.3.2.7.7	Reserved Type 26 Message	Moved to 2.2.3.2.7.6	2.2.3.2.7.7	Reserved Type 27 Message
2.2.3.2.7.8	Reserved Type 27 Message	Moved to 2.2.3.2.7.7	2.2.3.2.7.8	Extended Squitter A/C Status Type 28 Message
2.2.3.2.7.9	Reserved Type 28 Message	Moved to 2.2.3.2.7.8	2.2.3.2.7.9	Reserved Type 30 Messages
2.2.3.3	ADS-B Message Update Rates		2.2.3.3	ADS-B Message Update Rates
2.2.3.3.1	Transmission Rates, Transponder Based		2.2.3.3.1	Transmission Rates, Transponder Based
2.2.3.3.1.1	Transmission Rates, DO-181B		2.2.3.3.1.1	Transmission Rates, DO-181C
2.2.3.3.1.2	Transmission Rates, not in DO-181B		2.2.3.3.1.2	Transmission Rates, not in DO-181C
2.2.3.3.1.3	Max TX Rates for Transponder Based		2.2.3.3.1.3	Max TX Rates for Transponder Based TX
			2.2.3.3.1.4	Event-Driven Message Broadcast Rates
			2.2.3.3.1.4.1	Target State and Status Message Broadcast Rate
			2.2.3.3.1.4.2	Operational Status Message Broadcast Rate
			2.2.3.3.1.4.3	ES A/C Status Message Broadcast Rate
			2.2.3.3.1.4.4	TYPE 23 (TEST) Message Broadcast Rate
			2.2.3.3.1.4.5	TYPE 24 – 27 & TYPE 30 Broadcast Rate
			2.2.3.3.1.4.6	Message Transmission Scheduling
			2.2.3.3.1.4.6.1	Event-Driven Message Scheduling Function
2.2.3.3.2	TX Rates for Stand-Alone Transmitters		2.2.3.3.2	TX Rates for Stand-Alone Transmitters
2.2.3.3.2.1	Power-On Initialization And Start Up		2.2.3.3.2.1	Power-On Initialization And Start Up
2.2.3.3.2.1.1	Power-On Initialization		2.2.3.3.2.1.1	Power-On Initialization
2.2.3.3.2.1.2	Start Up		2.2.3.3.2.1.2	Start Up
2.2.3.3.2.2	Airborne Position Message Broadcast Rate		2.2.3.3.2.2	Airborne Position Message Broadcast Rate
2.2.3.3.2.3	Surface Position Message Broadcast Rate		2.2.3.3.2.3	Surface Position Message Broadcast Rate

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2.2.3.3.2.4	Ident. And Type Broadcast Rate		2.2.3.3.2.4	Identification And Type Msg Broadcast Rate
2.2.3.3.2.5	Velocity Msg. Broadcast Rate		2.2.3.3.2.5	Velocity Message Broadcast Rate
2.2.3.3.2.6	Traj. In., Op. Coord…. BC Rates	Replaced	2.2.3.3.2.6	Target State & Status, and Operational Status Messages Broadcast Rates
2.2.3.3.2.6.1	Traj. Intent Msg. Broadcast Rates	Replaced	2.2.3.3.2.6.1	Target State & Status Message Broadcast Rate
2.2.3.3.2.6.2	Op. Coord. Msg. Broadcast Rates	Deleted	2.2.3.3.2.6.2	Operational Status Message Broadcast Rates
2.2.3.3.2.6.3	Op. Status Msg. Broadcast Rates	Moved to 2.2.3.3.2.6.2	2.2.3.3.2.6.3	Extended Squitter A/C Status Broadcast Rates
2.2.3.3.2.6.4	Emergency Priority Msg. Broadcast Rates	Moved to 2.2.3.3.2.6.3		
2.2.3.3.2.7	TYPE 23 (“Test”) Msg. Broadcast Rates		2.2.3.3.2.7	TYPE 23 (“Test”) Msg. Broadcast Rates
2.2.3.3.2.8	TYPE 24 - 27 Msg. Broadcast Rates		2.2.3.3.2.8	TYPE 24 - 27 Msg. Broadcast Rates
2.2.3.3.2.9	Msg. Transmission Rate Exceptions		2.2.3.3.2.9	Message Transmission Scheduling
			2.2.3.3.2.9.1	Position, Velocity and Identification Message Scheduling
			2.2.3.3.2.9.2	Event-Driven Message Scheduling
2.2.3.3.2.10	Max. Message. Transmission Rates		2.2.3.3.2.10	Max. Message. Transmission Rates
2.2.3.3.2.11	Message Timeout		2.2.3.3.2.11	Message Timeout
2.2.3.3.2.12	Message Termination		2.2.3.3.2.12	Message Termination
2.2.3.4	Transmitted Msg. Error Protection		2.2.3.4	Transmitted Msg. Error Protection
2.2.4	ADS-B Receiver Characteristics		2.2.4	ADS-B Receiver Characteristics
2.2.4.1	MTL Definition		2.2.4.1	MTL Definition
2.2.4.2	Receivers Shared with a TCAS Unit		2.2.4.2	Receivers Shared with a TCAS Unit
2.2.4.2.1	Dual MTL		2.2.4.2.1	Dual MTL
2.2.4.2.1.1	TCAS Compatibility		2.2.4.2.1.1	TCAS Compatibility
2.2.4.2.1.2	ADS-B Compatibility		2.2.4.2.1.2	ADS-B Compatibility
2.2.4.2.2	Re-Triggerable Reply Processor		2.2.4.2.2	Re-Triggerable Reply Processor
2.2.4.3	Stand Alone Receivers		2.2.4.3	Stand Alone Receivers
2.2.4.3.1	In-Band Acceptance and Re-Trig.		2.2.4.3.1	In-Band Acceptance and Re-Trig.
2.2.4.3.1.1	In-Band Acceptance		2.2.4.3.1.1	In-Band Acceptance
2.2.4.3.1.2	Re-Triggerable Capability		2.2.4.3.1.2	Re-Triggerable Capability
2.2.4.3.2	Out-of-Band Rejection		2.2.4.3.2	Out-of-Band Rejection
2.2.4.3.3	Dynamic MTL		2.2.4.3.3	Dynamic MTL
2.2.4.3.4	1090 Msg. Reception Techniques		2.2.4.3.4	1090 Msg. Reception Techniques
2.2.4.3.4.1	ADS-B Message Reception		2.2.4.3.4.1	ADS-B Message Reception
2.2.4.3.4.2	Narrow Pulse Discrimination		2.2.4.3.4.2	Narrow Pulse Discrimination
2.2.4.3.4.3	TACAN and DME Discrimination		2.2.4.3.4.3	TACAN and DME Discrimination
2.2.4.3.4.4	Pulse Characteristics of RX Message		2.2.4.3.4.4	Pulse Characteristics of RX Message
2.2.4.3.4.5	Message Formats		2.2.4.3.4.5	Message Formats
2.2.4.3.4.6	1090 Msg. Received Signals		2.2.4.3.4.6	1090 Msg. Received Signals
2.2.4.3.4.7	ADS-B Signal Reception		2.2.4.3.4.7	ADS-B Signal Reception
2.2.4.3.4.7.1	Criteria for Msg. TX Pulse Detection		2.2.4.3.4.7.1	Criteria for Msg. TX Pulse Detection
2.2.4.3.4.7.2	Criteria for Preamble Acceptance		2.2.4.3.4.7.2	Criteria for Preamble Acceptance
2.2.4.3.4.7.3	Criteria for Data Block Acceptance		2.2.4.3.4.7.3	Criteria for Data Block Acceptance
2.2.4.3.5	Receiver Duty Factor		2.2.4.3.5	Receiver Duty Factor
2.2.4.4	ADS-B Received Message Error Protection	Moved to 2.2.4.5	2.2.4.4	Enhanced Squitter Reception Techniques
			2.2.4.4.1	Need for Enhanced Techniques
			2.2.4.4.2	ES Reception Technique Overview
			2.2.4.4.3	Error Correction Restriction
			2.2.4.5	ADS-B Received Message Error Protection
2.2.5	ADS-B Transmission Device Msg. Processor		2.2.5	ADS-B Transmission Device Msg. Processor
2.2.5.1	TX Data Processing and Msg. Format		2.2.5.1	TX Data Processing and Message Format
2.2.5.1.1	ICAO 24-Bit Address	Expanded	2.2.5.1.1	Participant Address

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			2.2.5.1.1.1	ICAO 24-Bit Address
			2.2.5.1.1.2	Anonymous Address
			2.2.5.1.1.3	Address Qualifier
2.2.5.1.2	ADS-B Emitter Category Data		2.2.5.1.2	ADS-B Emitter Category Data
2.2.5.1.3	Air/Ground Status Data		2.2.5.1.3	Air/Ground Status Data
2.2.5.1.4	Surveillance Status Data		2.2.5.1.4	Surveillance Status Data
2.2.5.1.5	Altitude Data		2.2.5.1.5	Altitude Data
2.2.5.1.6	Time Data and Time Mark Pulse		2.2.5.1.6	Time Data and Time Mark Pulse
2.2.5.1.6.1	Case, where Time = 0		2.2.5.1.6.1	Case, where Time = 0
2.2.5.1.6.2	Case, where Time = 1		2.2.5.1.6.2	Case, where Time = 1
2.2.5.1.7	Own Position Latitude Data		2.2.5.1.7	Own Position Latitude Data
2.2.5.1.8	Own Position Longitude Data		2.2.5.1.8	Own Position Longitude Data
2.2.5.1.9	Ground Speed Data		2.2.5.1.9	Ground Speed Data
2.2.5.1.10	Ground Track Data	Expanded	2.2.5.1.10	Heading/Ground Track Data
2.2.5.1.11	Aircraft Identification Data		2.2.5.1.11	Aircraft Identification Data
2.2.5.1.12	East / West Velocity Data		2.2.5.1.12	East / West Velocity Data
2.2.5.1.13	North / South Velocity Data		2.2.5.1.13	North / South Velocity Data
2.2.5.1.14	Vertical Rate Data		2.2.5.1.14	Vertical Rate Data
2.2.5.1.15	Turn Rate Data	Deleted	2.2.5.1.15	Heading (True or Magnetic) Data
2.2.5.1.16	Magnetic Heading Data	Moved to 2.2.5.1.15	2.2.5.1.16	True Airspeed Data
2.2.5.1.17	True Airspeed Data	Moved to 2.2.5.1.16	2.2.5.1.17	Indicated Airspeed Data
2.2.5.1.18	Indicated Airspeed Data	Moved to 2.2.5.1.17	2.2.5.1.18	Intent Change Data
2.2.5.1.19	Unused Section	Deleted	2.2.5.1.19	IFR Capability Data
2.2.5.1.20	Intent Change Data	Moved to 2.2.5.1.18	2.2.5.1.20	NAC_V Data
2.2.5.1.21	IFR Capability Data	Moved to 2.2.5.1.19	2.2.5.1.21	Subtype (Aircraft Status) Data
2.2.5.1.22	NUC_R Data	Moved to 2.2.5.1.20 & Renamed	2.2.5.1.22	CC (Reserved for Service Level) Data
2.2.5.1.23	Current or Next Data	Deleted	2.2.5.1.23	CC (~TCAS) Data
2.2.5.1.24	Trajectory Point / Leg Type	Deleted	2.2.5.1.24	CC (CDTI Traffic Display Capability) Data
2.2.5.1.25	TCP / TCP+1 Latitude Data	Deleted	2.2.5.1.25	CC (ARV Report Capability) Data
2.2.5.1.26	TCP / TCP+1 Longitude Data	Deleted	2.2.5.1.26	CC (TS Report Capability) Data
2.2.5.1.27	TCP / TCP+1 Altitude Data	Deleted	2.2.5.1.27	CC (TC Report Capability) Data
2.2.5.1.28	TCP / TCP+1 Time-to-Go Data	Deleted	2.2.5.1.28	CC (Position Offset Applied [POA]) Data
2.2.5.1.29	Subtype (Op. Coord.) Data	Deleted	2.2.5.1.29	OM (OM Format) Data
2.2.5.1.30	Runway Threshold Data	Deleted	2.2.5.1.30	OM (TCAS/ACAS Resolution Advisory Active) Data
2.2.5.1.31	Roll Angle Data	Deleted	2.2.5.1.31	OM (IDENT Switch Active) Data
2.2.5.1.32	Go Around Data	Deleted	2.2.5.1.32	OM (Receiving ATC Services) Data
2.2.5.1.33	Engine Out Data	Deleted	2.2.5.1.33	Radio Altitude Data
2.2.5.1.34	Subtype (Aircraft Status) Data	Moved to 2.2.5.1.21	2.2.5.1.34	Version Number Data
2.2.5.1.35	Capability Class (Enroute Op.) Data	Redefined at 2.2.5.1.22 through 2.2.5.1.28		
2.2.5.1.36	Capability Class (Terminal Op.) Data	Redefined at 2.2.5.1.22 through 2.2.5.1.28		
2.2.5.1.37	CC (Approach/Landing Op.) Data	Redefined at 2.2.5.1.22 through 2.2.5.1.28		
2.2.5.1.38	CC (Surface Op.) Data	Redefined at 2.2.5.1.22 through 2.2.5.1.28		
2.2.5.1.39	OM (Enroute Op.) Data	Redefined at 2.2.5.1.29 through 2.2.5.1.32		
2.2.5.1.40	OM (Terminal Op.) Data	Redefined at 2.2.5.1.29 through 2.2.5.1.32		

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2.2.5.1.41	OM (Approach/Landing Op.) Data	Redefined at 2.2.5.1.29 through 2.2.5.1.32		
2.2.5.1.42	OM (Surface Op.) Data	Redefined at 2.2.5.1.29 through 2.2.5.1.32		
2.2.5.1.43	Radio Altitude Data	Moved to 2.2.5.1.33		
2.2.5.2	Reserved Section	Replaced	2.2.5.2	Transmission Device Message Latency
			2.2.5.2.1	Airborne Position Message. Latency
			2.2.5.2.2	Surface Position Message Latency
			2.2.5.2.3	Aircraft Identification Message Latency
			2.2.5.2.4	Airborne Velocity_1 Msg. Latency
			2.2.5.2.5	Airborne Velocity_2 Msg. Latency
			2.2.5.2.6	Airborne Velocity_3 Msg. Latency
			2.2.5.2.7	Airborne Velocity_4 Msg. Latency
			2.2.5.2.8	Airborne Velocity_5 Msg. Latency
			2.2.5.2.9	Airborne Velocity_6 Msg. Latency
			2.2.5.2.10	Airborne Velocity_7 Msg. Latency
			2.2.5.2.11	Aircraft Target State and Status Message Latency
			2.2.5.2.12	Aircraft Operational Status Msg. Latency
			2.2.5.2.13	Test Event-Driven Message Latency
			2.2.5.2.14	Type 24 Message Latency
			2.2.5.2.15	Type 25 Message Latency
			2.2.5.2.16	Type 26 Message Latency
			2.2.5.2.17	Type 27 Message Latency
2.2.5.3	TX Msg. Latency	Moved to 2.2.5.2		
2.2.5.3.1	Airborne Pos. Msg. Latency	Moved to 2.2.5.2.1		
2.2.5.3.2	Surface Pos. Msg. Latency	Moved to 2.2.5.2.2		
2.2.5.3.3	Aircraft Ident. Msg. Latency	Moved to 2.2.5.2.3		
2.2.5.3.4	Airborne Velocity_1 Msg. Latency	Moved to 2.2.5.2.4		
2.2.5.3.5	Airborne Velocity_2 Msg. Latency	Moved to 2.2.5.2.5		
2.2.5.3.6	Airborne Velocity_3 Msg. Latency	Moved to 2.2.5.2.6		
2.2.5.3.7	Airborne Velocity_4 Msg. Latency	Moved to 2.2.5.2.7		
2.2.5.3.8	Airborne Velocity_5 Msg. Latency	Moved to 2.2.5.2.8		
2.2.5.3.9	Airborne Velocity_6 Msg. Latency	Moved to 2.2.5.2.9		
2.2.5.3.10	Airborne Velocity_7 Msg. Latency	Moved to 2.2.5.2.10		
2.2.5.3.11	Aircraft Trajectory Intent Msg. Latency	Replaced with 2.2.5.2.11		
2.2.5.3.12	Aircraft Operational Coord. Msg. Latency	Deleted		
2.2.5.3.13	Aircraft Operational Status Msg. Latency	Moved to 2.2.5.2.12		
2.2.5.3.14	Test Event-Driven Msg. Latency	Moved to 2.2.5.2.13		
2.2.5.3.15	Type 24 Message Latency	Moved to 2.2.5.2.14		
2.2.5.3.16	Type 25 Message Latency	Moved to 2.2.5.2.15		
2.2.5.3.17	Type 26 Message Latency	Moved to 2.2.5.2.16		
2.2.5.3.18	Type 27 Message Latency	Moved to 2.2.5.2.17		
2.2.6	ADS-B RX Msg. Processor Characteristics		2.2.6	ADS-B RX Msg. Processor Characteristics
2.2.6.1	ADS-B Msg. Reception Function		2.2.6.1	ADS-B Msg. Reception Function
2.2.6.1.1	Msg. Receipt. Fct. Output Message		2.2.6.1.1	Msg. Receipt. Fct. Output Message
2.2.6.1.2	Msg. Receipt. Fct. Out Msg. Delivery		2.2.6.1.2	Msg. Receipt. Fct. Out Msg. Delivery
2.2.7	ADS-B Message Processor Character.		2.2.7	ADS-B Message Processor Character.
2.2.7.1	ADS-B RX Msg. Reception		2.2.7.1	ADS-B Receiving Device Message Reception
2.2.7.1.1	Receipt of Type = 0		2.2.7.1.1	Receipt of Type Code = 0
2.2.8	ADS-B Report Characteristics		2.2.8	ADS-B Report Characteristics

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2.2.8.1	ADS-B State Vector Rpt. Char.		2.2.8.1	ADS-B State Vector Report Char.
2.2.8.1.1	SV Report Type and Structure ID & Val Flags		2.2.8.1.1	SV Report Type and Structure ID & Val Flags
2.2.8.1.1.1	SV Report Type and Structure ID		2.2.8.1.1.1	SV Report Type and Structure ID
2.2.8.1.1.2	SV Report Validity Flags		2.2.8.1.1.2	SV Report Validity Flags
2.2.8.1.2	Latitude (WGS-84)	Moved to 2.2.8.1.5	2.2.8.1.2	Participant Address
2.2.8.1.3	Longitude (WGS-84)	Moved to 2.2.8.1.6	2.2.8.1.3	Address Qualifier
2.2.8.1.4	Altitude, Geometric (WGS-84)	Moved to 2.2.8.1.7	2.2.8.1.4	Report Time of Applicability
			2.2.8.1.4.1	Time of Applicability for Estimated Position/Velocity
			2.2.8.1.4.2	Position Time of Applicability
			2.2.8.1.4.3	Velocity Time of Applicability
2.2.8.1.5	NUC_P, - Position Component	Deleted	2.2.8.1.5	Latitude (WGS-84)
2.2.8.1.6	NUC_R, - Velocity Component	Deleted	2.2.8.1.6	Longitude (WGS-84)
2.2.8.1.7	Geometric Position Valid (Horizontal)	Deleted	2.2.8.1.7	Altitude, Geometric (WGS-84)
2.2.8.1.8	Geometric Position Valid (Vertical)	Deleted	2.2.8.1.8	North / South Velocity
2.2.8.1.9	North / South Velocity	Moved to 2.2.8.1.8	2.2.8.1.9	East / West Velocity
2.2.8.1.10	East / West Velocity	Moved to 2.2.8.1.9	2.2.8.1.10	Ground Speed While on the Surface
2.2.8.1.11	Vertical Rate, Geometric (WGS-84)	Moved to 2.2.8.1.14	2.2.8.1.11	Heading While on the Surface
2.2.8.1.12	Altitude, Barometric (Pressure Alt.)	Moved to 2.2.8.1.12	2.2.8.1.12	Altitude, Barometric (Pressure Alt.)
2.2.8.1.13	Barometric Altitude Rate	Moved to 2.2.8.1.15	2.2.8.1.13	Vertical Rate, Geometric/Barometric
2.2.8.1.14	True Airspeed (TAS)	Deleted	2.2.8.1.14	Vertical Rate, Geometric (WGS-84)
2.2.8.1.15	Indicated Airspeed (IAS)	Deleted	2.2.8.1.15	Barometric Altitude Rate
2.2.8.1.16	Ground Speed	Moved to 2.2.8.1.10	2.2.8.1.16	NIC
2.2.8.1.17	Ground Track	Moved to 2.2.8.1. 11	2.2.8.1.17	Estimated Latitude (WGS-84)
2.2.8.1.18	Magnetic Heading	Deleted	2.2.8.1.18	Estimated Longitude (WGS-84)
2.2.8.1.19	Turn Indication	Deleted	2.2.8.1.19	Estimated North / South Velocity
2.2.8.1.20	Position Time of Applicability	Moved to 2.2.8.1.4.1	2.2.8.1.20	Estimated East / West Velocity
2.2.8.1.21	Velocity Time of Applicability	Moved to 2.2.8.1.4.3	2.2.8.1.21	Surveillance Status / Discretes
2.2.8.1.22	Estimated Latitude (WGS-84)	Moved to 2.2.8.1.17	2.2.8.1.22	Report Mode
2.2.8.1.23	Estimated Longitude (WGS-84)	Moved to 2.2.8.1.18		
2.2.8.1.24	Estimated North / South Velocity	Moved to 2.2.8.1.19		
2.2.8.1.25	Estimated East / West Velocity	Moved to 2.2.8.1.20		
2.2.8.1.26	Surveillance Status / Discretes	Moved to 2.2.8.1.21		
2.2.8.1.27	Report Time of Applicability	Moved to 2.2.8.1.4		
2.2.8.1.28	Report Mode	Moved to 2.2.8.1.22		
2.2.8.2	ADS-B Mode Status Report Char.		2.2.8.2	ADS-B Mode Status Report
2.2.8.2.1	MS Report Type and Structure ID & Validity		2.2.8.2.1	MS Report Type and Structure ID & Validity
2.2.8.2.1.1	MS Report Type and Structure ID		2.2.8.2.1.1	MS Report Type and Structure ID
2.2.8.2.1.2	MS Report Validity Flags		2.2.8.2.1.2	MS Report Validity Flags
2.2.8.2.2	Call Sign	Moved to 2.2.8.2.6	2.2.8.2.2	Participant Address
2.2.8.2.3	Participant Category	Moved to 2.2.8.2.2	2.2.8.2.3	Address Qualifier
2.2.8.2.4	Emergency / Priority Status	Moved to 2.2.8.2.9	2.2.8.2.4	Report Time of Applicability
2.2.8.2.5	TCP Latitude	Deleted	2.2.8.2.5	Version Number
2.2.8.2.6	TCP Longitude	Deleted	2.2.8.2.6	Call Sign
2.2.8.2.7	TCP Altitude	Deleted	2.2.8.2.7	Emitter Category
2.2.8.2.8	TCP Time-to-Go	Deleted	2.2.8.2.8	A/V Length and Width Codes
2.2.8.2.9	Operational Mode Specific Data	Moved to 2.2.8.2.11	2.2.8.2.9	Emergency / Priority Status
2.2.8.2.10	Flight Mode Specific Data	Deleted	2.2.8.2.10	Capability Codes
2.2.8.2.11	Paired Address	Deleted	2.2.8.2.11	Operational Mode Data
2.2.8.2.12	Runway Threshold Speed	Deleted	2.2.8.2.12	SV Quality – NAC_P
2.2.8.2.13	Roll Angle	Deleted	2.2.8.2.13	SV Quality – NAC_V

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2.2.8.2.14	Discrete Data	Deleted	2.2.8.2.14	SV Quality – SIL
2.2.8.2.15	Current Traj. Point / Leg Type	Deleted	2.2.8.2.15	SV Quality – BAQ Reserved
2.2.8.2.16	Report Time of Applicability	Moved to 2.2.8.2.4	2.2.8.2.16	SV Quality – NIC_{BARO}
			2.2.8.2.17	True/Magnetic Heading
			2.2.8.2.18	Vertical Rate Type
2.2.8.3	ADS-B TCP+1 Report Characteristics	Replaced	2.2.8.3	ADS-B On-Condition Report Characteristics
2.2.8.3.1	TCP+1 Rpt. Type & Structure & Validity Flag	Replaced	2.2.8.3.1	Target State Report (TSR)
2.2.8.3.1.1	TCP+1 Report Type & Structure ID	Replaced	2.2.8.3.1.1	TSR Type and Structure ID
2.2.8.3.1.2	TCP+1 Report Validity Flags	Replaced	2.2.8.3.1.2	TSR Participant Address
			2.2.8.3.1.3	TSR Address Qualifier
			2.2.8.3.1.4	TSR Time of Applicability
			2.2.8.3.1.5	TSR Horiz Intent: Horiz Data Available and Horiz Target Source Indicator
			2.2.8.3.1.6	TSR Horiz Intent: Target Heading or Track Angle
			2.2.8.3.1.7	TSR Horiz Intent: Target Heading/Track Indicator
			2.2.8.3.1.8	TSR Horiz Intent: Horiz Mode Indicator
			2.2.8.3.1.9	TSR Horiz Intent:Reserved for Horiz Conform.
			2.2.8.3.1.10	TSR Vertical Intent: Vertical Data Available and Vertical Target Source Indicator
			2.2.8.3.1.11	TSR Vertical Intent: Target Altitude
			2.2.8.3.1.12	TSR Vertical Intent: Target Altitude Type
			2.2.8.3.1.13	TSR Vertical Intent: Target Altitude Capability
			2.2.8.3.1.14	TSR Vertical Intent: Vertical Mode Indicator
			2.2.8.3.1.15	TSR Vertical Intent: Reserved for Vertical Conformance
2.2.8.3.2	TCP+1 Latitude	Replaced	2.2.8.3.2	Air Referenced Velocity (ARV) Report
			2.2.8.3.2.1	ARV Type and Structure ID and Validity Flags
			2.2.8.3.2.1.1	ARV Report Type and Structure ID
			2.2.8.3.2.1.2	ARV Validity Flags
			2.2.8.3.2.2	ARV Participant Address
			2.2.8.3.2.3	ARV Address Qualifier
			2.2.8.3.2.4	ARV Report Time of Applicability
			2.2.8.3.2.5	ARV Airspeed
			2.2.8.3.2.5.1	ARV True Airspeed (TAS)
			2.2.8.3.2.5.2	ARV Indicated Airspeed (IAS)
			2.2.8.3.2.6	ARV Airspeed Type
			2.2.8.3.2.7	ARV Heading While Airborne
2.2.8.3.3	TCP+1 Longitude	Replaced		
2.2.8.3.4	TCP+1 Altitude	Replaced		
2.2.8.3.5	TCP+1 Time-to-Go	Replaced		
2.2.8.3.6	Next Trajectory Point / Leg Type	Replaced		
2.2.8.3.7	Report Time of Applicability	Replaced		
2.2.8.4	ADS-B Rpt. Assy. Fct. Data Proc.	Reorganized	2.2.8.4	Receiving Installation Time Processing
2.2.8.4.1	RX Device Position - Latitude	Deleted	2.2.8.4.1	Precision Installations
2.2.8.4.2	RX Device Position - Longitude	Deleted	2.2.8.4.2	Non-Precision Installations
2.2.8.4.3	Receiving Installation Time	Moved to 2.2.8.4		
2.2.8.4.3.1	Precision Installations	Moved to 2.2.8.4.1		
2.2.8.4.3.2	Non-Precision Installations	Moved to 2.2.8.4.2		
2.2.9	ADS-B Report Type Requirements		2.2.9	ADS-B Report Type Requirements
2.2.9.1	Rpt. Content for Class A		2.2.9.1	Receiver Reporting Rqt. for Class A
2.2.9.1.1	ADS-B SV Reports for Class A		2.2.9.1.1	ADS-B SV Reports for Class A

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2.2.9.1.2	ADS-B MS Reports for Class A		2.2.9.1.2	ADS-B MS Reports for Class A
2.2.9.1.3	ADS-B TCP+1 Reports for Class A	Replaced	2.2.9.1.3	ADS-B TS Reports for Class A
			2.2.9.1.4	ADS-B ARV Reports for Class A
2.2.9.2	RX Rpt. Content for Class B		2.2.9.2	Receiver Reporting Rqt. Content for Class B
2.2.10	ADS-B RX Rpt. Assembly & Delivery		2.2.10	ADS-B RX Rpt. Assembly & Delivery
2.2.10.1	Fundamental Principals of Rpt. Assembly		2.2.10.1	Fundamental Principals of Rpt. Assembly
2.2.10.1.1	General Data Flow		2.2.10.1.1	General Data Flow
2.2.10.1.2	ADS-B Report Organization		2.2.10.1.2	ADS-B Report Organization
2.2.10.1.3	ADS-B Msg. Temporary Retention		2.2.10.1.3	ADS-B Msg. Temporary Retention
2.2.10.1.4	Participant ADS-B Track Files		2.2.10.1.4	Participant ADS-B Track Files
2.2.10.2	Rpt. Assy. Acq. State Initialization		2.2.10.2	Rpt. Assy. Acq. State Initialization
2.2.10.3	Report Assembly Acquisition State		2.2.10.3	Report Assembly Acquisition State
2.2.10.3.1	Rpt. Assy. Acq. State—Airborne		2.2.10.3.1	Rpt. Assy. Acq. State—Airborne
2.2.10.3.1.1	Latency, Rpt. Assy. Acq. --- Airborne		2.2.10.3.1.1	Latency, Rpt. Assy. Acq. --- Airborne
2.2.10.3.2	Rpt. Assy. Acq. State – Surface		2.2.10.3.2	Rpt. Assy. Acq. State – Surface
2.2.10.3.2.1	Latency, Rpt. Assy. Acq. --- Surface		2.2.10.3.2.1	Latency, Rpt. Assy. Acq. --- Surface
2.2.10.3.3	Acquisition State Data Retention		2.2.10.3.3	Acquisition State Data Retention
2.2.10.4	Report Assembly Track State		2.2.10.4	Report Assembly Track State
2.2.10.4.1	Rpt. Assy. Track State --- Airborne		2.2.10.4.1	Rpt. Assy. Track State --- Airborne
2.2.10.4.1.1	Rpt. Assy. Track State Init. – Air.		2.2.10.4.1.1	Rpt. Assy. Track State Init. – Air.
2.2.10.4.1.2	Rpt. Assy. Track State Maint. – Air.		2.2.10.4.1.2	Rpt. Assy. Track State Maint. – Air.
2.2.10.4.1.3	Rpt. Assy. Track State Term. – Air.		2.2.10.4.1.3	Rpt. Assy. Track State Term. – Air.
2.2.10.4.2	Report Assy. Track State – Surface		2.2.10.4.2	Report Assy. Track State – Surface
2.2.10.4.2.1	Rpt. Assy. Track State Init. – Surface		2.2.10.4.2.1	Rpt. Assy. Track State Init. – Surface
2.2.10.4.2.2	Rpt. Assy. Track State Maint. – Surface		2.2.10.4.2.2	Rpt. Assy. Track State Maint. – Surface
2.2.10.4.2.3	Rpt. Assy. Track State Term. – Surface		2.2.10.4.2.3	Rpt. Assy. Track State Term. – Surface
2.2.10.5	Minimum # of Participant Track Files		2.2.10.5	Minimum # of Participant Track Files
2.2.10.6	Participant Track File Maint. In Interf. Env.	Deleted		
2.2.11	Self Test and Monitors		2.2.11	Self Test and Monitors
2.2.11.1	Self Test		2.2.11.1	Self Test
2.2.11.2	Broadcast Monitoring		2.2.11.2	Broadcast Monitoring
2.2.11.2.1	Non-Broadcast Only Equipment		2.2.11.2.1	Non-Broadcast Only Equipment
2.2.11.2.2	Broadcast Only Equipment		2.2.11.2.2	Broadcast Only Equipment
2.2.11.3	Address Verification		2.2.11.3	Address Verification
2.2.11.3.1	Transponder Based Equipment		2.2.11.3.1	Transponder Based Equipment
2.2.11.3.2	Non-Transponder Based Equipment		2.2.11.3.2	Non-Transponder Based Equipment
2.2.11.4	Receiver Self Test Capability		2.2.11.4	Receiver Self Test Capability
2.2.11.5	Failure Annunciation		2.2.11.5	Failure Annunciation
2.2.11.5.1	ADS-B TX Failure Annunciation		2.2.11.5.1	ADS-B TX Failure Annunciation
2.2.11.5.2	ADS-B RX Failure Annunciation		2.2.11.5.2	ADS-B RX Failure Annunciation
2.2.11.5.3	Co-Lo TX RX Failure Annunciation		2.2.11.5.3	Co-Lo TX RX Failure Annunciation
2.2.12	Response to Mutual Suppression		2.2.12	Response to Mutual Suppression
2.2.12.1	TX Response to Mutual Suppression		2.2.12.1	TX Response to Mutual Suppression
2.2.12.2	RX Response to Mutual Suppression		2.2.12.2	RX Response to Mutual Suppression
2.2.13	Antenna System		2.2.13	Antenna System
2.2.13.1	Transmit Pattern Gain		2.2.13.1	Transmit Pattern Gain
2.2.13.2	Receiver Pattern Gain		2.2.13.2	Receiver Pattern Gain
2.2.13.3	Frequency Req. for Tx and Rx Antenna(s)		2.2.13.3	Frequency Req. for Tx and Rx Antenna(s)
2.2.13.4	Impedance and VSWR		2.2.13.4	Impedance and VSWR
2.2.13.5	Polarization		2.2.13.5	Polarization

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2.2.13.6	Diversity Operation		2.2.13.6	Diversity Operation
2.2.13.6.1	Transmitting Diversity		2.2.13.6.1	Transmitting Diversity
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2.2.14.1.1.3	Processing Efficiency		2.2.14.1.1.3	Processing Efficiency
2.2.14.1.2	ADS-B TX Output Interfaces		2.2.14.1.2	ADS-B TX Output Interfaces
2.2.14.1.2.1	Discrete Output Interfaces		2.2.14.1.2.1	Discrete Output Interfaces
2.2.14.1.2.2	Digital Comm. Output Interfaces		2.2.14.1.2.2	Digital Comm. Output Interfaces
2.2.14.2	ADS-B RX Interfaces		2.2.14.2	ADS-B RX Interfaces
2.2.14.2.1	ADS-B RX Input Interfaces		2.2.14.2.1	ADS-B RX Input Interfaces
2.2.14.2.1.1	Discrete Input Interfaces		2.2.14.2.1.1	Discrete Input Interfaces
2.2.14.2.1.2	Digital Comm. Input Interfaces		2.2.14.2.1.2	Digital Comm. Input Interfaces
2.2.14.2.1.3	Processing Efficiency		2.2.14.2.1.3	Processing Efficiency
2.2.14.2.2	ADS-B RX Output Interfaces		2.2.14.2.2	ADS-B RX Output Interfaces
2.2.14.2.2.1	Discrete Output Interfaces		2.2.14.2.2.1	Discrete Output Interfaces
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