

Annex H

AIDC PICS/OICS

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL

WORKING GROUP A - APPLICATIONS AND IMPLEMENTATION

SUBGROUP A3 - GROUND-GROUND APPLICATIONS

ATS Interfacility Data Communication (AIDC)

Generic AIDC PICS/OICS Proforma

Summary

This workbook contains the ADSP Profile PICS/OICS proforma tables for AIDC Version 1 (Doc 9705, Third Edition)

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Table I-1: PICS/OICS Identification

Ref No	PICS Identification	Implementation PICS
I-1.1	Date of Statement (DD/MM/YYYY)	
I-1.2	PICS/OICS Serial Number	
	Profile Identification	Profile Details
I-1.3	Profile Name	
I-1.4	Version	
I-1.5	Profile Authority Name	
I-1.6	Profile Applicability (Areas, Countries, Organisations, etc, where the profile can be applied)	
I-1.7	Date of effect	
I-1.8	Other Information	

Table I-2: Supplier and Implementation Identification

Ref No	Supplier Information	Supplier Details
I-2.1	Organization Name	
I-2.2	Contact Name(s)	
I-2.3	Address	
I-2.4	Telephone Number	
I-2.5	Telex Number	
I-2.6	Fax Number	
I-2.7	E-mail Address	
I-2.8	Other Information	
	Implementation Information	Implementation Details
I-2.9	Implementation Name	
I-2.10	Implementation Version	
I-2.11	Hardware Name	
I-2.12	Hardware Version	
I-2.13	Operating System Name	
I-2.14	Operating System Version	
I-2.15	Special Configuration	
I-2.16	Other Information	

Table I-3: AIDC Protocol Identification

Ref No		ATN	Profile	Implementation
I-3.1	Protocol Standard (Title, reference, date)	ICAO Doc 9705 Second Edition - 1999		
I-3.2	AIDC Protocol Version	Version 1		
I-3.3	Addenda, amendments and corrigenda implemented	—		
I-3.4	Defect Reports implemented	—		

Table S-1: AIDC Protocol Options

Source: Chapter 3		ADSP^a Status	Profile Status	IMP Support	Associated Predicate	Notes
Ref No	Protocol Option					
S-1.1	Flight Notification	M			Notif	
S-1.2	Flight Coordination	C.1			Coord	
S-1.3	Transfer of Control	O			TCntl	
S-1.4	Transfer of Communications	O			TComm	
S-1.5	Transfer of Surveillance Data	O			TSurv	
S-1.6	General Information Interchange	O			GInfo	
S-1.7	Response to TransferConditionsProposal with TransferConditionsAccept	C.2			TCAccept	

PredicatesC.1 If TCntl or TComm then **M** else **O**.C.2 If TComm then **O** else —.**Notes**

- a ADSP: ICAO Doc 9694, Manual of Air Traffic Services Data Link Applications, First Edition, 1999

Table S-2: AIDC Conformant Configurations

Source:		ADSP Status	Profile Status	IMP Support	Notes
Ref No	List of Configurations				
S-2.1	I. Notif	C.1			a
S-2.2	II. Notif + Coord	C.1			b
S-2.3	III. Notif + Coord + TComm	C.1			c
S-2.4	IV. Notif + Coord + TCntl	C.1			d

ADSP Status

C.1 At least one configuration shall be supported.

Notes

- a Notification only, low automation
- b Notification and coordination, medium automation
- c Transfer of Communications, full automation
- d Transfer of Control, full automation

Table S-3: Supported AIDC Service Primitives

Source: Chapter 3 - Abstract Service		Sender (req, [cnf])			Receiver (ind, [rsp])			Notes
Ref No	Service Primitives	ADSP Status	Profile Status	IMP Support	ADSP Status	Profile Status	IMP Support	
	Capability of the system to support the service:							
S-3.1	User-confirmation	M			M			See S-5
S-3.2	Notify	C.1			C.2			See S-4, S-6
S-3.3	Coordinate-start	C.3			C.4			See S-4, S-7
S-3.4	Coordinate-end	C.4			C.4			See S-4, S-7
S-3.5	Coordinate-negotiate	C.5			C.4			See S-4, S-7
S-3.6	Coordinate-standby	C.5			C.4			See S-4, S-7
S-3.7	Transfer-initiate	C.6			C.6			See S-4, S-8
S-3.8	Transfer-request	C.7			C.6			See S-4, S-8
S-3.9	Transfer-conditions-proposal	C.7			C.6			See S-4, S-8
S-3.10	Transfer-conditions-accept	C.8			C.6			a, See S-4, S-8
S-3.11	Transfer-communication	C.9			C.6			See S-4, S-8
S-3.12	Transfer-communication-assume	C.9			C.6			See S-4, S-8
S-3.13	Transfer-control	C.10			C.10			See S-4, S-9
S-3.14	Info-transfer	C.11			C.11			See S-4, S-10, S-11
S-3.15	End	M			M			See S-4, S-12
S-3.16	User-abort	M			M			See S-12
S-3.17	Provider-abort	—	—	—	M			See S-12

ADSP Status

- C.1 If Notif then (if Coord then **O** else **M**) else —
 C.2 If Notif then **M** else —
 C.3 If Coord then (if Notif then **O** else **M**) else —
 C.4 If Coord then **M** else —
 C.5 If Coord then **O** else —.
 C.6 If TComm then **M** else —.
 C.7 If TComm then **O** else —.
 C.8 If TComm and if TCAccept then **M** else —.
 C.9 If TComm then (at least one option shall be supported) else —.
 C.10 If TCntl then **M** else —.
 C.11 If TSurv or GInfo then **M** else —

Notes

- a In C.8, 'and if' is used as the text equivalent of the C language's '&&' (a && b is false whenever a is false without considering b, or, when a is true, if b is false)

Table S-4: Abstract Services - Common Parameters

Source: Chapter 3 - Abstract Service		OICS						
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status		Implementation Status		ASN.1 Description	Notes
				Cons		Cons		
S-4.1	Capability of the system to specify a Message Number (except in User-abort and User-confirmation)	M						
S-4.1.01	Message Number	M					See MessageNumber (P-7.54)	
S-4.2	Capability of the system to understand a Message Number (except in User-abort and User-confirmation)	M		—		—		
S-4.2.01	Message Number	M		—		—	See MessageNumber (P-7.54)	

Table S-5: User-confirmation Service Parameters

Source: Chapter 3 - Abstract Service (3.2.3.4)		OICS						
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile		Implementation		ASN.1 Description	Notes
			Status	Cons	Status	Cons		
S-5.1	Capability of the system to respond with a User-confirmation request	M						
S-5.1.01	Result	M		—		—	See Result (P-7.66)	a
S-5.1.02	Reason	O		—		—	See ApplicationError (P-8.2)	
S-5.1.03	Referenced Number	M					See MessageNumber (P-7.54)	E.1
S-5.2	Capability of the system to understand a User-confirmation indication	M						
S-5.2.01	Result	M					See Result (P-7.66)	
S-5.2.02	Reason	M					See ApplicationError (P-8.2)	
S-5.2.03	Referenced Number	M					See MessageNumber (P-7.54)	

ADSP Constraints

E.1 The Referenced Number shall be the Message Number of the message being confirmed.

Notes

- a 3.2.3.4.5.1 Recommendation.- The Reason parameter should be provided by the AIDC-User when the Response parameter has the abstract value of "rejected".

Table S-6: Notifying Regime Service Parameters

Source: Chapter 3 - Abstract Service (3.2.3.5.1) This table shall apply if predicate Notif is true		OICS					ASN.1 Description	Notes
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile		Implementation			
			Status	Cons	Status	Cons		
S-6.1	Capability of the system to send a Notify request	C.1						
S-6.1.01	Called Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-6.1.02	Notification Information	M					See Notify (P-1.1)	
S-6.2	Capability of the system to understand a Notify indication	M						
S-6.2.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-6.2.02	Notification Information	M					See Notify (P-1.1)	

ADSP StatusC.1 If Coord then **O** else **M**

Table S-7: Coordinating Regime Service Parameters

Source: Chapter 3 - Abstract Service (3.2.3.6)		OICS					ASN.1 Description	Notes
This table shall apply if predicate Coord is true		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
S-7.1	Capability of the system to initiate a dialogue by sending a Coordinate-start request	C.1						
S-7.1.01	Called Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-7.1.02	Coordinate Start Information (CoordinateInitial)	M					See CoordinateInitial (P-2.1,01)	
S-7.2	Capability of the system to initiate coordination on an existing dialogue by sending a Coordinate-start request	C.2						
S-7.2.01	Called Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-7.2.02	Coordinate Start Information (CoordinateUpdate)	M					See CoordinateUpdate (P-2.1,02)	
S-7.3	Capability of the system to understand a Coordinate-start indication establishing a dialogue	M						
S-7.3.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-7.3.02	Coordinate Start Information (CoordinateInitial)	M					See CoordinateInitial (P-2.1,01)	
S-7.4	Capability of the system to understand a Coordinate-start indication on an existing dialogue	M						
S-7.4.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-7.4.02	Coordinate Start Information (CoordinateUpdate)	M					See CoordinateUpdate (P-2.1,02)	
S-7.5	Capability of the system to send a Coordinate-end request	M						
S-7.5.01	Result	M					See Result (P-7.66,01)	E.1
S-7.5.02	Coordinate Start Information (CoordinateAccept)	M					See CoordinateAccept (P-3.4)	
S-7.6	Capability of the system to send a Coordinate-end request	M						
S-7.6.01	Result	M					See Result (P-7.66,02)	E.2
S-7.6.02	Coordinate Start Information (CoordinateReject)	M					See CoordinateReject (P-3.5)	
S-7.7	Capability of the system to understand a Coordinate-end indication	M						
S-7.7.01	Coordinate Start Information (CoordinateAccept)	M					See CoordinateAccept (P-3.4)	
S-7.8	Capability of the system to understand a Coordinate-end indication	M						
S-7.8.01	Coordinate Start Information (CoordinateReject)	M					See CoordinateReject (P-3.5)	
S-7.9	Capability of the system to send a Coordinate-negotiate request	O						
S-7.9.01	Coordinate Negotiate Information	M					See CoordinateNegotiate (P-3.1)	
S-7.10	Capability of the system to understand a Coordinate-negotiate indication	M						
S-7.10.01	Coordinate Negotiate Information	M					See CoordinateNegotiate (P-3.1)	
S-7.11	Capability of the system to send a Coordinate-standby request	O						
S-7.11.01	Coordinate Standby Information	M					See CoordinateStandby (P3.2)	

Source: Chapter 3 - Abstract Service (3.2.3.6) This table shall apply if predicate Coord is true		OICS						
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status Cons		Implementation Status Cons		ASN.1 Description	Notes
S-7.12	Capability of the system to understand a Coordinate-standby indication	M						
S-7.12.01	Coordinate Standby Information	M					See CoordinateStandby (P3.2)	

ADSP Status

- C.1 if Notif then **O** else **M**
 C.2 if Notif then **M** else –

ADSP Constraints

- E.1 Value = accepted
 E.2 Value = rejected

Table S-8: Transferring Regime Service Parameters (Transfer of Communications)

Source: Chapter 3 - Abstract Service (3.2.3.7)		OICS						
This table shall apply if predicate TComm is true		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ASN.1 Description	Notes
S-8.1	Capability of the system to send a Transfer-initiate request	M						
S-8.1.01	Transfer Initiate Information	M					See TransferInitiate (P-4.1)	
S-8.2	Capability of the system to understand a Transfer-initiate indication	M						
S-8.2.01	Transfer Initiate Information	M					See TransferInitiate (P-4.1)	
S-8.3	Capability of the system to send a Transfer-request request	O						
S-8.3.01	Transfer Request Information	M					See TransferRequest (P-4.2)	
S-8.4	Capability of the system to understand a Transfer-request indication	M						
S-8.4.01	Transfer Request Information	M					See TransferRequest (P-4.2)	
S-8.5	Capability of the system to send a Transfer-conditions-proposal request	O						
S-8.5.01	Transfer Conditions Proposal Information	M					See TransferConditionsProposal (P-4.3)	
S-8.6	Capability of the system to understand a Transfer-conditions-proposal indication	M						
S-8.6.01	Transfer Conditions Proposal Information	M					See TransferConditionsProposal (P-4.3)	
S-8.7	Capability of the system to send a Transfer-conditions-accept request	C.1						
S-8.7.01	Transfer Conditions Accept Information	M					See TransferConditionsAccept (P-4.5)	
S-8.8	Capability of the system to understand a Transfer-conditions-accept indication	M						
S-8.8.01	Transfer Conditions Accept Information	M					See TransferConditionsAccept (P-4.5)	
S-8.9	Capability of the system to send a Transfer-communication request	C.2						
S-8.9.01	Transfer Communication Information	M					See TransferComm (P-4.5)	
S-8.10	Capability of the system to understand a Transfer-communication indication	M						
S-8.10.01	Transfer Communication Information	M					See TransferComm (P-4.5)	
S-8.11	Capability of the system to send a Transfer-communication-assume request	C.2						
S-8.11.01	Transfer Communication Assume Information	M					See TransferCommAssume (P-4.6)	
S-8.12	Capability of the system to understand a Transfer-communication-assume indication	M						
S-8.12.01	Transfer Communication Assume Information	M					See TransferCommAssume (P-4.6)	

Source: Chapter 3 - Abstract Service (3.2.3.7) This table shall apply if predicate TComm is true		OICS					ASN.1 Description	Notes
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile		Implementation			
			Status	Cons	Status	Cons		

ADSP Status

- C.1 If TCAccept then **M** else —
 C.2 At least one of these options shall be supported

Table S-9: Transferring Regime Service Parameters (Transfer of Control)

Source: Chapter 3 - Abstract Service (3.2.3.7.7)		OICS					ASN.1 Description	Notes
This table shall apply if predicate TCntl is true		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
S-9.1	Capability of the system to send a Transfer-control request	M						
S-9.1.01	Transfer Control Information	M					See TransferControl (P-5.1)	
S-9.2	Capability of the system to understand a Transfer-control indication	M						
S-9.2.01	Transfer Control Information	M					See TransferControl (P-5.1)	
S-9.3	Capability of the system to reject a transfer by sending a Transfer-control response	M						
S-9.3.01	Result	M					See Result (P-7.66,02)	E.1
S-9.3.02	Transfer Control Information	M					See TransferControlData (TransferControlReject) (P-5.4)	
S-9.4	Capability of the system to understand a Transfer-control confirmation rejecting a transfer	M						
S-9.4.01	Result	M					See Result (P-7.66,02)	E.1
S-9.4.02	Transfer Control Information	M					See TransferControlData (TransferControlReject) (P-5.4)	
S-9.5	Capability of the system to accept a transfer by sending a Transfer-control response	M						
S-9.5.01	Result	M					See Result (P-7.66,01)	E.2
S-9.5.02	Transfer Control Information	M					See TransferControlData (TransferControlAssume) (P-5.3)	
S-9.6	Capability of the system to understand a Transfer-control confirmation accepting a transfer	M						
S-9.6.01	Result	M					See Result (P-7.66,01)	E.2
S-9.6.02	Transfer Control Information	M					See TransferControlData (TransferControlAssume) (P-5.3)	

ADSP Constraints

- E.1 Value = 'rejected'
E.2 Value = 'accepted'

Table S-10: Asynchronous Services Service Parameters (Surveillance)

Source: Chapter 3 - Abstract Service (3.2.3.8) This table shall apply if predicate TSurv is true		OICS					ASN.1 Description	Notes
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile		Implementation			
			Status	Cons	Status	Cons		
S-10.1	Capability of the system to send an Info-transfer request (SurvGeneral)	M						
S-10.1.01	Called Peer Identifier	C.1		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-10.1.02	Information	M					See SurveillanceGeneral (P-6.6)	
S-10.2	Capability of the system to understand an Info-transfer indication (SurvGeneral)	M						
S-10.2.01	Called Peer Identifier	C.1		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-10.2.02	Information	M					See SurveillanceGeneral (P-6.6)	

ADSP StatusC.1 If (Notif or Coord) then **O** else **M****Notes**

- a The use of the Called Peer Identifier in Info-transfer depends on the operational choice to invoke Info-transfer outside an existing dialogue.

Table S-11: Asynchronous Services (General) Service Parameters

Source: Chapter 3 - Abstract Service (3.2.3.8)		OICS					ASN.1 Description	Notes
This table shall apply if predicate GInfo is true		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
S-11.1	Capability of the system to send an Info-transfer request (GeneralExec)	C.1						
S-11.1.01	Called Peer Identifier	C.2		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-11.1.02	Information	M					See GeneralExecutiveData (P-6.3)	
S-11.2	Capability of the system to send an Info-transfer request (GeneralPoint)	C.1						
S-11.2.01	Called Peer Identifier	C.2		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-11.2.02	Information	M					See GeneralPoint (P-6.2)	
S-11.3	Capability of the system to send an Info-transfer request (FreetextGeneral)	C.1						
S-11.3.01	Called Peer Identifier	C.2		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-11.3.02	Information	M					See GeneralFreeText (P-6.5)	
S-11.4	Capability of the system to send an Info-transfer request (FreetextEmergency)	C.1						
S-11.4.01	Called Peer Identifier	C.2		—		—	See ICAOFacilityDesignation (P-7.46)	a
S-11.4.02	Information	M					See EmergencyFreeText (P-6.4)	
S-11.5	Capability of the system to understand an Info-transfer indication (GeneralExec)	M						
S-11.5.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-11.5.02	Information	M					See GeneralExecutiveData (P-6.3)	
S-11.6	Capability of the system to understand an Info-transfer indication (GeneralPoint)	M						
S-11.6.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-11.6.02	Information	M					See GeneralPoint (P-6.2)	
S-11.7	Capability of the system to understand an Info-transfer indication (FreetextGeneral)	M						
S-11.7.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-11.7.02	Information	M					See GeneralFreeText (P-6.5)	
S-11.8	Capability of the system to understand an Info-transfer indication (FreetextEmergency)	M						
S-11.8.01	Calling Peer Identifier	M		—		—	See ICAOFacilityDesignation (P-7.46)	
S-11.8.02	Information	M					See EmergencyFreeText (P-6.4)	

ADSP Status

C.1 At least one option shall be supported

C.2 If (Notif or Coord) then **O** else **M**

Source: Chapter 3 - Abstract Service (3.2.3.8) This table shall apply if predicate GInfo is true		OICS						
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status Cons		Implementation Status Cons		ASN.1 Description	Notes

- Notes**
- a The use of the Called Peer Identifier in Info-transfer depends on the operational choice to invoke Info-transfer outside an existing dialogue.

Table S-12: Termination services Service Parameters

Source: Chapter 3 - Abstract Service (3.2.3.9)		OICS						
		Operational Use						
Ref No	Operational Elements	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ASN.1 Description	Notes
S-12.1	Capability of the system to send an End request	M						
S-12.1.01	Cancel Information	M					See Cancel (P-1.2)	
S-12.2	Capability of the system to understand an End indication	M						
S-12.2.01	Cancel Information	M					See Cancel (P-1.2)	
S-12.3	Capability of the system to send a User-abort request	M						
S-12.4	Capability of the system to understand a User-abort indication	M						
S-12.5	Capability of the system to understand a Provider-abort indication	M						
S-12.5.01	Provider Abort Reason	M					See ProviderAbortReason (P-8.1)	
S-12.5.02	Result Source	O					Associate-source-diagnostic (see ISO/IEC 8650-1)	

Table S-13: User Requirements

Source: Chapter 9 - User Requirements		OICS					Notes
		Operational Use					
Ref No	Requirement	ADSP Status	Profile		Implementation		
			Status	Cons	Status	Cons	
S-13.1	Capability of the system to request QoS requirements for an AIDC dialogue	M					
S-13.1.01	Class of Communication Service: 'ATSC - No Traffic Type Policy Preference'	M					
S-13.1.02	Priority: 'normal priority flight safety messages'	M					
S-13.1.03	Residual error rate: 'low'	M					
S-13.2	Capability of the system to respond to QoS requirements for an AIDC dialogue	M					
S-13.2.01	Class of Communication Service: 'ATSC - No Traffic Type Policy Preference'	M					
S-13.2.02	Priority: 'normal priority flight safety messages'	M					
S-13.2.03	Residual error rate: 'low'	M					
S-13.3	The following agreements shall be established:	M					
S-13.3.01	Agreement on a common AIDC message set and associated services	–					
S-13.3.02	Agreement as to what flight-related conditions dictate the invocation of the AIDC services	–					
S-13.3.03	Agreement as to the timing associated with the use of the AIDC services	–					
S-13.3.04	Agreement on the predicate P1 as defined in 3.2.6.1.4.	C.1					E.1
S-13.4	The following functions may be performed:						
S-13.4.01	Association of AIDC-AE instantiations to flights	M					See 3.2.9.4.1
S-13.4.02	Assignment and handling of message priorities by AIDC-User	C.2					See 3.2.9.2
S-13.4.03	Validation of received messages and response with User-confirmation	M					See 3.2.9.4.2
S-13.4.04	Generation and use of sequence identifiers	M					See 3.2.9.4.2
S-13.4.05	Use appropriate sequence identifier in User-confirmation.request	M					See 3.2.9.4.2
S-13.4.06	Response to inappropriate Coordination message	O					See 3.2.9.4.1
S-13.4.07	Error notification to the operator	M					See 3.2.9.4.5

ADSP Status

- C.1 If TComm then **M** and **E.1** else –
 C.2 If AIDC-User implements message queuing then M else –

Constraints

- E.1 if not TAccept then P1 shall be false

Table S-14: Operational Timers

Source: Chapter 9 - User Requirements			OICS						Notes
			Operational Use						
Ref No	AIDC-User Timer	Timer	ADSP		Profile		Implementation		
			Status	Value	Status	Value	Status	Value	
S-14.1	User confirmation								
S-14.1.01	User confirmation timer	t _{UC}	M						
S-14.2	Response								
S-14.2.01	Response timer	t _{UR}	M						
S-14.3	Monitor								
S-14.3.01	Monitor timer	t _{UM}	M						
S-14.4	Standby								
S-14.4.01	Standby timer	t _{US}	M						

Table S-15: Technical timers

Source: Chapter 6 - AIDC-ASE Protocol Definition			OICS						Notes
			Operational Use						
Ref No	AIDC-ASE Timer	Timer	ADSP		Profile		Implementation		
			Status	Value	Status	Value	Status	Value	
S-15.1	User confirmation								
S-15.1.01	User confirmation timer	t _C	M						
S-15.2	Info-transfer								
S-15.2.01	Idle timer 1	t _{1IN}	C.1						
S-15.2.02	Idle timer 2	t _{2IN}	C.1						
S-15.3	Notifying-Coordinating transition								
S-15.3.01	Timer 1 (responder)	t _{1NC}	C.2						
S-15.3.02	Timer 2 (initiator)	t _{2NC}	C.3						
S-15.4	Response monitoring								
S-15.4.01	Response timer	t _{1R}	C.4						
S-15.4.02	Negative response timer	t _{2R}	M						
S-15.4.03	Receiving transfer timer	t _{3R}	C.5						
S-15.5	Coordination standby								
S-15.5.01	Standby timer	t _S	C.2						
S-15.6	Coordinating-Transferring transition								
S-15.6.01	Timer 1 (responder)	t _{1CT}	C.6						
S-15.6.02	Timer 2 (initiator)	t _{2CT}	C.6						
S-15.7	End								
S-15.7.01	End idle timer	t _{TE}	M						

ADSP Status

- C.1 if TSurv or GInfo then **M** else –
- C.2 if Coord then **M** else –
- C.3 if Notif then **M** else –
- C.4 if Coord or TComm or TCntl then **M** else –
- C.5 if TComm then **M** else –
- C.6 if TComm or TCntl then **M** else –

Table M-1: AIDC Messages

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Messages	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
	Capability of the system to use ...											AIDC-APDU ::= CHOICE	
M-1.1	AppAccept	M					M					[0] AIDC-ucf-apdu	See M-2.1
M-1.2	AppError	M					M						
M-1.3	Notify	C.1					C.2					[1] AIDC-nfy-apdu	See M-3.1
M-1.4	CoordinateInitial	C.3					C.5					[2] AIDC-crd-start-apdu	See M-3.2
M-1.5	CoordinateUpdate	C.4					C.5						
M-1.6	CoordinateAccept	C.5					C.5					[3] AIDC-crd-end-apdu	See M-3.3
M-1.7	CoordinateReject	C.5					C.5						
M-1.8	CoordinateNegotiate	C.6					C.5					[4] AIDC-crd-ngtt-apdu	See M-3.4
M-1.9	CoordinateStandby	C.6					C.5					[5] AIDC-crd-stndby-apdu	See M-3.5
M-1.10	TransferInitiate	C.7					C.7					[6] AIDC-tfr-init-apdu	See M-4.1
M-1.11	TransferRequest	C.7					C.7					[7] AIDC-tfr-rqst-apdu	See M-4.2
M-1.12	TransferConditionsProposal	C.8					C.7					[8] AIDC-tfr-prpsi-apdu	See M-4.3
M-1.13	TransferConditionsAccept	C.9					C.9					[9] AIDC-tfr-accept-apdu	See M-4.4
M-1.14	TransferControl	C.11					C.11					[10] AIDC-tfr-cntrl-Req-apdu	See M-5.1
M-1.15	TransferControlReject	C.11					C.11					[11] AIDC-tfr-cntrl-Rsp-apdu	See M-5.2
M-1.16	TransferControlAssume	C.11					C.11						
M-1.17	TransferComm	C.10					C.10					[12] AIDC-tfr-comm-apdu	See M-4.5
M-1.18	TransferCommAssume	C.10					C.10					[13] AIDC-tfr-comm-assm-apdu	See M-4.6
M-1.19	SurvGeneral	C.12					C.12					[14] AIDC-inf-tfr-apdu	See M-2.3
M-1.20	GeneralPoint	C.13					C.13						
M-1.21	GeneralExecData	C.13					C.13						
M-1.22	FreetextEmergency	C.13					C.13						
M-1.23	FreetextGeneral	C.13					C.13						
M-1.24	CoordinateCancel	C.5					C.5					[15] AIDC-end-apdu	See M-2.2
M-1.25	Use of extensibility	X					C.14					...	

Predicate

- C.1 If Notif then (if Coord then **O** else **M**) else —
 C.2 If Notif then **M** else —
 C.3 If Coord then (if Notif then **O** else **M**) else —
 C.4 If Coord and if Notif then **M** else —
 C.5 If Coord then **M** else —
 C.6 If Coord then **O** else —.
 C.7 If TComm then **M** else —.
 C.8 If TComm then **O** else —.
 C.9 If TComm and if TCAccept then **M** else —.
 If TComm then (at least one option shall be supported) else —.
 C.10 supported) else —.
 C.11 If TCntl then **M** else —.
 C.12 If TSurv then **M** else —
 If GInfo then (at least one option shall be supported)
 C.13 else —

Source: Chapter 7 - ASN.1																Notes
Ref No	Operational Elements : Messages	Send						Receive						ASN.1 Protocol Elements		
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons					

C.14 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (no use of extensibility is specified for Version 1).

Table M-2: AIDC Messages (Miscellaneous)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
M-2.1	acknowledgement of an operational message ...	M					M					AIDC-ucf-apdu ::= SEQUENCE	
M-2.1.01	... positively (AppAccept) or negatively (AppError)	M					M					[0] Result	See P-7.66
M-2.1.02	... with reason if negative	O					M					[1] ApplicationErrorData	See P-8.2
M-2.1.03	... and quoting the message number	M					M					[2] MessageNumber	See P-7.54
M-2.2	cancellation of dialogue ...	M					M					AIDC-end-apdu ::= SEQUENCE	
M-2.2.01	... with flight data	O					M					[0] Cancel	See P-1.2
M-2.2.02		M					M					[1] MessageNumber	See P-7.54
M-2.3	asynchronous messages ...	C.1					C.1					AIDC-inf-tfr-apdu ::= SEQUENCE	
M-2.3.01	... with message data	M					M					[0] InfoData	See P-6.1
M-2.3.02		M					M					[1] MessageNumber	See P-7.54

ADSP StatusC.1 If TSurv or GInfo then **M** else —

Table M-3: AIDC Messages (Notification/Coordination)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
M-3.1	notification of a flight ...	C.1					C.2					AIDC-nfy-apdu ::= SEQUENCE	
M-3.1.01	... with the called ATSU's identification	M					M					[0] ICAOFacilityDesignation	See P-7.46
M-3.1.02	... and the calling ATSU's identification	M					M					[1] ICAOFacilityDesignation	See P-7.46
M-3.1.03	... and the flight data	M					M					[2] Notify	See P-1.1
M-3.1.04		M					M					[3] MessageNumber	See P-7.54
M-3.2	start of coordination for a flight ...	C.3					C.3					AIDC-crd-start-apdu ::= SEQUENCE	
M-3.2.01	... with the called ATSU's identification	M					M					[0] ICAOFacilityDesignation	See P-7.46
M-3.2.02	... and the calling ATSU's identification	M					M					[1] ICAOFacilityDesignation	See P-7.46
M-3.2.03	... and the flight data	M					M					[2] Startdata	See P-2.1
M-3.2.04		M					M					[3] MessageNumber	See P-7.54
M-3.3	end of coordination for a flight ...	C.3					C.3					AIDC-crd-end-apdu ::= SEQUENCE	
M-3.3.01	... with flight data	M					M					[0] Enddata	See P-3.3
M-3.3.02	... acceptance or rejection of the conditions	M					M					[1] Result	See P-7.66
M-3.3.03	... and the flight data	M					M					[2] MessageNumber	See P-7.54
M-3.4	negotiation of coordination for a flight ...	C.4					C.3					AIDC-crd-ngtt-apdu ::= SEQUENCE	
M-3.4.01	... with flight data	M					M					[0] CoordinateNegotiate	See P-3.1
M-3.4.02		M					M					[1] MessageNumber	See P-7.54
M-3.5	extended delay in coordination ...	C.4					C.3					AIDC-crd-stndby-apdu ::= SEQUENCE	
M-3.5.01	... with flight data	M					M					[0] CoordinateStandby	See P-3.2
M-3.5.02		M					M					[1] MessageNumber	See P-7.54

ADSP Status

- C.1 If Notif then (if Coord then **O** else **M**) else —
 C.2 If Notif then **M** else —
 C.3 If Coord then **M** else —
 C.4 If Coord then **O** else —.

Table M-4: AIDC Messages (Transfer of Communications)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
M-4.1	initiation of transfer of communications ...	C.1					C.1					AIDC-tfr-init-apdu ::= SEQUENCE	
M-4.1.01	... with flight data	M					M					[0] TransferInitiate	See P-4.1
M-4.1.02		M					M					[1] MessageNumber	See P-7.54
M-4.2	request initiation of transfer ...	C.2					C.1					AIDC-tfr-rqst-apdu ::= SEQUENCE	
M-4.2.01	... with flight data	M					M					[0] TransferRequest	See P-4.2
M-4.2.02		M					M					[1] MessageNumber	See P-7.54
M-4.3	proposal of transfer conditions ...	C.2					C.1					AIDC-tfr-prpsl-apdu ::= SEQUENCE	
M-4.3.01	... with flight data	M					M					[0] TransferConditionsProposal	See P-4.3
M-4.3.02		M					M					[1] MessageNumber	See P-7.54
M-4.4	acceptance of transfer conditions ...	C.3					C.1					AIDC-tfr-accept-apdu ::= SEQUENCE	
M-4.4.01	... with flight data	M					M					[0] TransferConditionsAccept	See P-4.4
M-4.4.02		M					M					[1] MessageNumber	See P-7.54
M-4.5	transfer of communications by the C-ATSU ...	C.4					C.1					AIDC-tfr-comm-apdu ::= SEQUENCE	
M-4.5.01	... with flight data	M					M					[0] TransferComm	See P-4.5
M-4.5.02		M					M					[1] MessageNumber	See P-7.54
M-4.6	assumption of communications by the R-ATSU ...	C.4					C.1					AIDC-tfr-comm-assm-apdu ::= SEQUENCE	
M-4.6.01	... with flight data	M					M					[0] TransferCommAssume	See P-4.6
M-4.6.02		M					M					[1] MessageNumber	See P-7.54

ADSP Status

- C.1 If TComm then **M** else —.
- C.2 If TComm then **O** else —.
- C.3 If TComm and if TCAccept then **M** else —.
- C.4 If TComm then at least one option shall be supported else —.

Table M-5: AIDC Messages (Transfer of Control)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
M-5.1	initiation of transfer of control with flight data	C.1					C.1					AIDC-tfr-cntrl-Req-apdu ::=	
M-5.1.01		M					M					SEQUENCE	
M-5.1.02		M					M					[0] TransferControl	See P-5.1
												[1] MessageNumber	See P-7.54
M-5.2	response to initiation of transfer with flight data ... accepting or rejecting the transfer	C.1					C.1					AIDC-tfr-cntrl-Rsp-apdu ::=	
M-5.2.01		M					M					SEQUENCE	
M-5.2.02		M					M					[0] TransferControlData	See P-5.2
M-5.2.03		M					M					[1] Result	See P-7.66
												[2] MessageNumber	See P-7.54

ADSP Status

C.1 If TCntl then M else —.

Table P-1: AIDC Parameters (Notification, End)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-1.1	flight data for notification ...											Notify ::= CHOICE	
P-1.1.01		M					M					[0] FlightID	See P-7.45
P-1.1.02		M					M					[1] DepartureAirportTime	See P-7.6
P-1.1.03		O					M					[2] DestinationAirport	See P-7.28
P-1.1.04		O					M					[3] FlightRuleFlightType	See P-7.37
P-1.1.05		O					M					[4] BeaconCode	See P-7.15
P-1.1.06		M					M					[5] AircraftNumberType	See P-7.1
P-1.1.07		O					M					[6] CNSEquipment	See P-7.18
P-1.1.08		M					M					[7] BoundaryEstimate	See P-7.17
P-1.1.09		O					M					[8] Route	See P-7.67
P-1.1.10		O					M					[9] OtherInformation	See P-7.58
P-1.1.11		M					M					[10] YMDHMS	See P-7.95
P-1.1.12	... extensibility	X					C.1					...	
P-1.2	flight data for cancelling a dialogue ...											Cancel ::= CHOICE	
P-1.2.01		M					M					[0] FlightID	See P-7.45
P-1.2.02		M					M					[1] DepartureAirportTime	See P-7.6
P-1.2.03		O					M					[2] DestinationAirport	See P-7.28
P-1.2.04		O					M					[3] BoundaryEstimate	See P-7.17
P-1.2.05		O					M					[4] OtherInformation	See P-7.58
P-1.2.06		M					M					[5] YMDHMS	See P-7.95
P-1.2.07	... extensibility	X					C.1					...	

ADSP Status

C.1 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).

Table P-2: AIDC Parameters (Coordination 1)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-2.1	flight data for coordination ...											Startdata ::= CHOICE	
P-2.1.01	... flight data for initial coordination	C.1					C.3					[0] CoordinateInitial	See P-2.2
P-2.1.02	... flight data for update of coordination	C.2					C.3					[1] CoordinateUpdate	See P-2.3
P-2.2	flight data for initial coordination ...											CoordinateInitial ::= CHOICE	
P-2.2.01		M					M					[0] FlightID	See P-7.45
P-2.2.02		M					M					[1] DepartureAirportTime	See P-7.6
P-2.2.03		O					M					[2] DestinationAirport	See P-7.28
P-2.2.04		O					M					[3] FlightRuleFlightType	See P-7.37
P-2.2.05		O					M					[4] BeaconCode	See P-7.15
P-2.2.06		M					M					[5] AircraftNumberType	See P-7.1
P-2.2.07		O					M					[6] CNSEquipment	See P-7.18
P-2.2.08		M					M					[7] BoundaryEstimate	See P-7.17
P-2.2.09		O					M					[8] Route	See P7-.67
P-2.2.10		O					M					[9] OtherInformation	See P-7.58
P-2.2.11		M					M					[10] YMDHMS	See P-7.95
P-2.2.12	... extensibility	X					C.4					...	
P-2.3	flight data for update of coordination ...											CoordinateUpdate ::= CHOICE	
P-2.3.01		M					M					[0] FlightID	See P-7.45
P-2.3.02		M					M					[1] DepartureAirportTime	See P-7.6
P-2.3.03		O					M					[2] DestinationAirport	See P-7.28
P-2.3.04		O					M					[3] BeaconCode	See P-7.15
P-2.3.05		M					M					[4] BoundaryEstimate	See P-7.17
P-2.3.06		O					M					[5] Route	See P7-.67
P-2.3.07		O					M					[6] YMDHMS	See P-7.95
P-2.3.08	... extensibility	X					C.4					...	

ADSP Status

- C.1 If Coord then (if Notif then **O** else **M**) else —
- C.2 If Coord and if Notif then **M** else —
- C.3 If Coord then **M** else —
- C.4 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).

Table P-3: AIDC Parameters (Coordination 2)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-3.1	flight data for negotiation of coordination ...											CoordinateNegotiate ::= CHOICE	
P-3.1.01		M					M					[0] FlightID	See P-7.35
P-3.1.02		M					M					[1] DepartureAirportTime	See P-7.6
P-3.1.03		O					M					[2] DestinationAirport	See P-7.28
P-3.1.04		M					M					[3] BoundaryEstimate	See P-7.17
P-3.1.05		O					M					[4] Route	See P-7.67
P-3.1.06		M					M					[5] YMDHMS	See P-7.95
P-3.1.07	... extensibility	X					C.2					...	
P-3.2	flight data for delayed coordination ...											CoordinateStandby ::= CHOICE	
P-3.2.01		M					M					[0] FlightID	See P-7.35
P-3.2.02		M					M					[1] DepartureAirportTime	See P-7.6
P-3.2.03		O					M					[2] DestinationAirport	See P-7.28
P-3.2.04		M					M					[3] YMDHMS	See P-7.95
P-3.2.05	... extensibility	X					C.2					...	
P-3.3	flight data in response to coordination ...											Enddata ::= CHOICE	
P-3.3.01	... acceptance of coordination	C.1					C.1					[0] CoordinateAccept	See P-3.4
P-3.3.02	... rejection of coordination	C.1					C.1					[1] CoordinateReject	See P-3.5
P-3.4	flight data for acceptance of coordination ...											CoordinateAccept ::= CHOICE	
P-3.4.01		M					M					[0] FlightID	See P-7.35
P-3.4.02		M					M					[1] DepartureAirportTime	See P-7.6
P-3.4.03		O					M					[2] DestinationAirport	See P-7.28
P-3.4.04		M					M					[3] Frequency	See P-7.40
P-3.4.05		M					M					[4] YMDHMS	See P-7.95
P-3.4.06	... extensibility	X					C.2					...	
P-3.5	flight data for rejection of coordination ...											CoordinateReject ::= CHOICE	
P-3.5.01		M					M					[0] FlightID	See P-7.35
P-3.5.02		M					M					[1] DepartureAirportTime	See P-7.6
P-3.5.03		O					M					[2] DestinationAirport	See P-7.28
P-3.5.04		M					M					[3] YMDHMS	See P-7.95
P-3.5.05	... extensibility	X					C.2					...	

ADSP Status

- C.1 If Coord then **M** else —
 C.2 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).

Table P-4: AIDC Parameters (Transfer of Communications)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-4.1	flight data for initiation of transfer ...											TransferInitiate ::= CHOICE	
P-4.1.01		M					M					[0] FlightID	See P-7.35
P-4.1.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.1.03		O					M					[2] DestinationAirport	See P-7.28
P-4.1.04		O					M					[3] ExecutiveData	See P-7.33
P-4.1.05		O					M					[4] TrackData	See P-7.84
P-4.1.06		M					M					[5] YMDHMS	See P-7.95
P-4.1.07	... extensibility	X					C.1					...	
P-4.2	flight data for request to initiate transfer ...											TransferRequest ::= CHOICE	
P-4.2.01		M					M					[0] FlightID	See P-7.35
P-4.2.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.2.03		O					M					[2] DestinationAirport	See P-7.28
P-4.2.04		O					M					[3] Frequency	See P-7.40
P-4.2.05		M					M					[4] YMDHMS	See P-7.95
P-4.2.06	... extensibility	X					C.1					...	
P-4.3	flight data for transfer proposal ...											TransferConditionsProposal ::= CHOICE	
P-4.3.01		M					M					[0] FlightID	See P-7.35
P-4.3.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.3.03		O					M					[2] DestinationAirport	See P-7.28
P-4.3.04		O					M					[3] ExecutiveData	See P-7.33
P-4.3.05		M					M					[4] YMDHMS	See P-7.95
P-4.3.06	... extensibility	X					C.1					...	
P-4.4	flight data for acceptance of proposal ...											TransferConditionsAccept ::= CHOICE	
P-4.4.01		M					M					[0] FlightID	See P-7.35
P-4.4.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.4.03		O					M					[2] DestinationAirport	See P-7.28
P-4.4.04		O					M					[3] Frequency	See P-7.40
P-4.4.05		M					M					[4] YMDHMS	See P-7.95
P-4.4.06	... extensibility	X					C.1					...	
P-4.5	flight data for relinquishing communications authority ...											TransferComm ::= CHOICE	
P-4.5.01		M					M					[0] FlightID	See P-7.35
P-4.5.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.5.03		O					M					[2] DestinationAirport	See P-7.28
P-4.5.04		O					M					[3] ExecutiveData	See P-7.33
P-4.5.05		O					M					[4] ReleaseIndicator	See P-7.65
P-4.5.06		M					M					[5] YMDHMS	See P-7.95
P-4.5.07	... extensibility	X					C.1					...	

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-4.6	flight data for assuming communications authority extensibility											TransferCommAssume ::= CHOICE	
P-4.6.01		M					M					[0] FlightID	See P-7.35
P-4.6.02		M					M					[1] DepartureAirportTime	See P-7.6
P-4.6.03		O					M					[2] DestinationAirport	See P-7.28
P-4.6.04		M					M					[3] YMDHMS	See P-7.95
P-4.6.05		X					C.1					...	

ADSP Status

C.1 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (no use of extensibility is specified for Version 1).

Table P-5: AIDC Parameters (Transfer of Control)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-5.1	flight data for initiation of transfer of control ...											TransferControl ::= CHOICE	
P-5.1.01		M					M					[0] FlightID	See P-7.35
P-5.1.02		M					M					[1] DepartureAirportTime	See P-7.6
P-5.1.03		O					M					[2] DestinationAirport	See P-7.28
P-5.1.04		O					M					[3] ExecutiveData	See P-7.33
P-5.1.05		M					M					[4] YMDHMS	See P-7.95
P-5.1.06	... extensibility	X					C.1					...	
P-5.2	response to initiation of transfer of control											TransferControlData ::= CHOICE	
P-5.2.01		M					M					[0] TransferControlAssume	See P-5.3
P-5.2.02		M					M					[1] TransferControlReject	See P-5.4
P-5.3	flight data for assuming control authority ...											TransferControlAssume ::= CHOICE	
P-5.3.01		M					M					[0] FlightID	See P-7.35
P-5.3.02		M					M					[1] DepartureAirportTime	See P-7.6
P-5.3.03		O					M					[2] DestinationAirport	See P-7.28
P-5.3.04		M					M					[3] YMDHMS	See P-7.95
P-5.3.05	... extensibility	X					C.1					...	
P-5.4	flight data for rejecting transfer of control ...											TransferControlReject ::= CHOICE	
P-5.4.01		M					M					[0] FlightID	See P-7.35
P-5.4.02		M					M					[1] DepartureAirportTime	See P-7.6
P-5.4.03		O					M					[2] DestinationAirport	See P-7.28
P-5.4.04		M					M					[3] YMDHMS	See P-7.95
P-5.4.05	... extensibility	X					C.1					...	

ADSP Status

- C.1 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).

Table P-6: AIDC Parameters (Info-transfer)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-6.1	asynchronous messages of various types ...											InfoData ::= CHOICE	
P-6.1.01		C.3					C.1					[0] GeneralExecutiveData	See P-6.3
P-6.1.02		C.3					C.1					[1] GeneralPoint	See P-6.2
P-6.1.03		C.2					C.1					[2] SurveillanceGeneral	See P-6.6
P-6.1.04		C.3					C.1					[3] GeneralFreeText	See P-6.5
P-6.1.05		C.3					C.1					[4] EmergencyFreeText	See P-6.4
P-6.1.06	... extensibility	X					C.4					...	
P-6.2	information indicating a flight of interest to the peer ATSU ...											GeneralPoint ::= SEQUENCE	
P-6.2.01		O					M					[0] FunctionalAddress	See P-7.45
P-6.2.02		M					M					[1] FlightID	See P-7.35
P-6.2.03		O					M					[2] DepartureAirportTime	See P-7.6
P-6.2.04		O					M					[3] DestinationAirport	See P-7.28
P-6.2.05		M					M					[4] FlightRuleFlightType	See P-7.37
P-6.2.06		O					M					[5] BeaconCode	See P-7.15
P-6.2.07		M					M					[6] AircraftNumberType	See P-7.1
P-6.2.08		M					M					[7] CNSEquipment	See P-7.18
P-6.2.09		O					M					[8] BoundaryEstimate	See P7-17
P-6.2.10		O					M					[9] Route	See P-7.67
P-6.2.11		O					M					[10] OtherInformation	See P-7.58
P-6.2.12		M					M					[11] YMDHMS	See P-7.95
P-6.2.13	... extensibility	X					C.4					...	
P-6.3	executive control information for a flight of interest ...											GeneralExecutiveData ::= SEQUENCE	
P-6.3.01		M					M					[0] FlightID	See P-7.35
P-6.3.02		M					M					[1] Frequency	See P-7.40
P-6.3.03		M					M					[2] ExecutiveData	See P-7.33
P-6.3.04		M					M					[4] YMDHMS	See P-7.95
P-6.3.05	... extensibility	X					C.4					...	
P-6.4	emergency free text message ...											EmergencyFreeText ::= SEQUENCE	
P-6.4.01		O					M					[0] FunctionalAddress	See P-7.45
P-6.4.02		M					M					[1] FlightID	See P-7.35
P-6.4.03		M					M					[2] FreeText	See P-7.39
P-6.4.04		M					M					[3] YMDHMS	See P-7.95
P-6.4.05	... extensibility	X					C.4					...	
P-6.5	general free text message ...											GeneralFreeText ::= SEQUENCE	
P-6.5.01		O					M					[0] FunctionalAddress	See P-7.45
P-6.5.02		M					M					[1] FlightID	See P-7.35
P-6.5.03		M					M					[2] FreeText	See P-7.39

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-6.5.04	... extensibility	M					M					[3] YMDHMS	See P-7.95
P-6.5.05		X					C.4					...	
P-6.6	independent or manual dependent surveillance data for a flight ...											SurveillanceGeneral ::=	
P-6.6.01	... extensibility	M					M					[0] FlightID	See P-7.35
P-6.6.02		O					M					[1] DepartureAirportTime	See P-7.6
P-6.6.03		O					M					[2] DestinationAirport	See P-7.28
P-6.6.04		M					M					[3] TrackData	See P-7.84
P-6.6.05		M					M					[4] YMDHMS	See P-7.95
P-6.6.06	...	X					C.4					...	

ADSP Status

- C.1 If TSurv or Ginfo then **M** else —
- C.2 If TSurv then **M** else —
- C.3 If GInfo then (at least one shall be supported) else —
- C.4 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).

Table P-7: AIDC Parameters (basic elements)

Source: Chapter 7 - ASN.1														
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements		Notes
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons			
P-7.1	the characteristics of a flight or formation											AircraftNumberType ::= SEQUENCE		
P-7.1.01		O					M					[0] NumberOfAircraft	See P-7.57	
P-7.1.02		M					M					[1] AircraftType	See P-7.3	
P-7.1.03		O					M					[2] WakeTurbulenceCategory	See P-7.93	
P-7.2	the aircraft identification											AircraftIdentification ::= IA5String (SIZE(2..7))		
P-7.3	the type of an aircraft											AircraftType ::= IA5String (SIZE(2..4))		
P-7.4	the 24-bit address of an aircraft											AircraftAddress ::= BIT STRING (SIZE(24))		
P-7.5	the location indicator of an aerodrome											Airport ::= IA5String (SIZE(4))		
P-7.6	the aerodrome and time of departure											DepartureAirportTime ::= SEQUENCE		
P-7.6.01		M					M					[0] Airport	See P7-.5	
P-7.6.02		O					M					[1] Time	See P-7.79	
P-7.7	an airway identifier											ATSRouteDesignator ::= IA5String (SIZE(2..7))		
P-7.8	the level of a flight or formation											Level ::= CHOICE		
P-7.8.01		M					M					[0] LevelFeet	See P-7.9	
P-7.8.02		M					M					[1] LevelMetre	See P-7.10	
P-7.8.03		M					M					[2] LevelFlightLevel	See P-7.11	
P-7.8.04		M					M					[3] LevelFlightLevelMetric	See P-7.12	
P-7.9	LevelFeet (-600-70000)/10ft											LevelFeet ::= INTEGER (-60..7000)		
P-7.10	LevelMetre (-30-25000)/1m											LevelMetre ::= INTEGER (-30..25000)		
P-7.11	LevelFlightLevel (3000-70000)/100ft											LevelFlightLevel ::= INTEGER (30..700)		
P-7.12	LevelFlightLevelMetric (1000-25000)/10m											LevelFlightLevel ::= INTEGER (30..700)		

Source: Chapter 7 - ASN.1													
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements	Notes
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.13	a level clearance											ATWLevel ::= SEQUENCE	
P-7.13.01		M					M					[0] ATWLevelTolerance	See P-7.14
P-7.13.02		O					M					[1] Level	See P-7.8
P-7.14	the tolerance for a level clearance											ATWLevelTolerance ::= ENUMERATED	
P-7.14.01		M					M					at (0)	
P-7.14.02		M					M					atorabove (1)	
P-7.14.03		M					M					atorbelow (2)	
P-7.15	the SSR code of an aircraft											BeaconCode ::= SEQUENCE SIZE (4) OF BeaconCodeOctalDigit	
P-7.16	the SSR code of an aircraft											BeaconCodeOctalDigit ::= INTEGER (0..7)	
P-7.17	the flight's ETA at a point on the boundary											BoundaryEstimate ::= SEQUENCE	
P-7.17.01		M					M					[0] Position	See P-7.62
P-7.17.02		M					M					[1] Time	See P-7.79
P-7.17.03		M					M					[2] Level	See P-7.8
P-7.17.04		O					M					[3] ATWLevel	See P-7.13
P-7.18	the CNS equipment of an aircraft ...											CNSEquipment ::= SEQUENCE	
P-7.18.01	... a list of each item of CNS equipment	O					M					[0] SEQUENCE SIZE (0..24) OF ComNavEquipmentStatus	See P-7.19
P-7.18.02	... the type of SSR equipment, if any	M					M					[1] SSREquipmentAvailable	See P-7.78
P-7.18.03	... whether ADS equipment is available	M					M					[2] BOOLEAN	
P-7.18.04	... whether ACAS equipment is available	M					M					[3] BOOLEAN	
P-7.18.05	... a list of each item of data link equipment	M					M					[4] SEQUENCE SIZE (0..4) OF DataLink	See P-7.20

Source: Chapter 7 - ASN.1														
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements	Notes	
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons			
P-7.19	types of CNS equipment other than data links, SSR, ADS or ACAS ...											ComNavEquipmentStatus ::=		
P-7.19.01		M					M					ENUMERATED		
P-7.19.02		M					M					aloranA (0)		
P-7.19.03		M					M					cloranC (1)		
P-7.19.04		M					M					ddme		
P-7.19.05		M					M					edecca (3)		
P-7.19.06		M					M					fadf (4)		
P-7.19.07		M					M					ggns (5)		
P-7.19.08		M					M					hhfRtf (6)		
P-7.19.09		M					M					iiinertialNavigation (7)		
P-7.19.10		M					M					lils (8)		
P-7.19.11		M					M					momega (9)		
P-7.19.12		M					M					ovor (10)		
P-7.19.13		M					M					pdoppler (11)		
P-7.19.14		M					M					rrnavRouteEquipment (12)		
P-7.19.15		M					M					ttacan (13)		
P-7.19.16		M					M					uuhfRTF (14)		
P-7.19.17	... extensibility	X					C.5					vvhfRTF (15)		
												...		
P-7.20	types of data links											DataLink ::= ENUMERATED		
P-7.20.01		M					M					hf (0)		
P-7.20.02		M					M					modeS (1)		
P-7.20.03		M					M					satcom (2)		
P-7.20.04		M					M					vhf (3)		
P-7.21	a date (1996-01-01 – 2095-12-31)/1 day											Date ::= SEQUENCE		
P-7.21.01		M					M					[0] Year	See P-7.94	
P-7.21.02		M					M					[1] Month	See P-7.55	
P-7.21.03		M					M					[2] Day	See P-7.22	
P-7.22	a day of the month (1-31)/1 day											Day ::= INTEGER (1..31)		
P-7.23	a direction											Degrees ::= CHOICE		
P-7.23.01		M					M					[0] DegreesMagnetic	See P-7.24	
P-7.23.02		O					M					[1] DegreesTrue	See P-7.27	
P-7.24	magnetic bearing (1..360)/1 degree											DegreesMagnetic ::= INTEGER (1..360)		
P-7.25	minutes of arc (0-59.99)/0.01 minute											DegreeMinutes ::= INTEGER (0..5999)		
P-7.26	seconds of arc (0-59)/1 second											DegreeSeconds ::= INTEGER (0..59)		

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.27	true bearing (1..360)/1 degree											DegreesTrue ::= INTEGER (1..360)	
P-7.28	a flight's destination aerodrome											DestinationAirport ::= Airport	
P-7.29	a direct routing clearance ...											DirectRouting ::= SEQUENCE	
P-7.29.01	... from	M					M					[0] Position	See P-7.62
P-7.29.02	... to	M					M					[1] Position	See P-7.62
P-7.30	a linear distance											Distance ::= CHOICE	
P-7.30.01		M					M					[0] DistanceNM	See P-7.32
P-7.30.02		M					M					[1] Distancekm	See P-7.31
P-7.31	metric distance (0-2000)/1km											Distancekm ::= INTEGER (0..2000)	
P-7.32	distance in nautical miles (0-1000)/1NM											DistanceNM ::= INTEGER (0..1000)	
P-7.33	executive control information for a flight											ExecutiveData ::= SEQUENCE	
P-7.33.01		O					M					[0] Speed	See P-7.70
P-7.33.02		O					M					[1] Level	See P7-.8
P-7.33.03		O					M					[2] DegreesMagnetic	See P7-.24
P-7.33.04		O					M					[3] VerticalChange	See P7-.88
P-7.33.05		O					M					[4] DirectRouting	See P7-.29
P-7.34	the coded designator of a waypoint											FixName ::= IA5String (SIZE(1..5))	
P-7.35	the ID of a flight or formation											FlightID ::= SEQUENCE	
P-7.35.01		M					M					[0] AircraftIdentification	See P7-.2
P-7.35.02		O					M					[1] Selcal	See P7-.69
P-7.35.03		O					M					[2] Registration	See P-7.64
P-7.35.04		O					M					[3] AircraftAddress	See P-7.4
P-7.36	the flight rules applying to an aircraft											FlightRule ::= ENUMERATED	
P-7.36.01		M					M					ifr (0)	
P-7.36.02		M					M					vfr (1)	
P-7.36.03		M					M					ifrfirst (2)	
P-7.36.04		M					M					vfrfirst (3)	
P-7.37	the flight rules and type of an aircraft											FlightRuleFlightType ::= SEQUENCE	
P-7.37.01		M					M					[0] FlightRule	See P-7.36
P-7.37.02		M					M					[1] FlightType	See P-7.38

Source: Chapter 7 - ASN.1														
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements	Notes	
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons			
P-7.38	the flight type of an aircraft											FlightType ::= ENUMERATED		
P-7.38.01		M					M					scheduledAirTransport (0)		
P-7.38.02		M					M					nonScheduledAirTransport		
P-7.38.03		M					M					generalAviation (2)		
P-7.38.04		M					M					military (3)		
P-7.38.05		M					M					otherFlights (4))		
P-7.39	free text message text											FreeText ::= IA5String (SIZE(1..256))		
P-7.40	frequency											Frequency ::= CHOICE		
P-7.40.01		M					M					[0] FrequencyHF	See P7-41	
P-7.40.02		M					M					[1] FrequencyVHF	See P7-42	
P-7.40.03		M					M					[2] FrequencyUHF	See P7-43	
P-7.40.04		M					M					[3] FrequencySatChannel	See P7-44	
P-7.41	HF frequency (2850-28000)/1kHz											FrequencyHF ::= INTEGER (2850..28000)		
P-7.42	VHF frequency (118.000..136.990)/0.005MHz											FrequencyVHF ::= INTEGER (23600..27398)		
P-7.43	UHF frequency (225.000..399.975)/0.025MHz											FrequencyUHF ::= INTEGER (9000..15999)		
P-7.44	the numeric code of a satellite channel											FrequencySatChannel ::= NumericString (SIZE(12))		
P-7.45	a locally defined position (other than the flight's controller) to receive the message											FunctionalAddress ::= IA5String (SIZE(1..18))		
P-7.46	the ICAO identifier of an ATSU											ICAOFacilityDesignation ::= IA5String (SIZE(4..8))		
P-7.47	a latitude											Latitude ::= SEQUENCE		
P-7.47.01		M					M					[0] LatitudeDegrees	See P-7.48	
P-7.47.02		O					M					[1] DegreeMinutes	See P-7.25	
P-7.47.03		O					M					[2] DegreeSeconds	See P-7.26	
P-7.47.04		M					M					[3] LatitudeDirection	See P-7.49	
P-7.48	a latitude (0-90)/0.001 degree											LatitudeDegrees ::= INTEGER (0..90000)		
P-7.49	latitude N/S											LatitudeDirection ::= ENUMERATED		
P-7.49.01		M					M					north (0)		
P-7.49.02		M					M					south (1)		

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.50	a lat/long position											LatitudeLongitude ::= SEQUENCE	
P-7.50.01		M					M					[0] Latitude	See P-7.47
P-7.50.02		M					M					[1] Longitude	See P-7.51
P-7.51	a longitude											Longitude ::= SEQUENCE	
P-7.51.01		M					M					[0] LongitudeDegrees	See P-7.52
P-7.51.02		O					M					[1] DegreeMinutes	See P-7.25
P-7.51.03		O					M					[2] DegreeSeconds	See P-7.26
P-7.51.04		M					M					[3] LongitudeDirection	See P-7.53
P-7.52	a longitude (0-180)/0.001 degree											LongitudeDegrees ::= INTEGER (0..180000)	
P-7.53	longitude E/W											LongitudeDirection ::= ENUMERATED	
P-7.53.01		M					M					east (0)	
P-7.53.02		M					M					west (1)	
P-7.54	the unambiguous sequence number of an AIDC message											MessageNumber ::= INTEGER (0..999999)	
P-7.55	a month number (1-12)/1 month											Month ::= INTEGER (1..12)	
P-7.56	the ICAO designator of navigation beacon											Navaid ::= IA5String (SIZE(1..4))	
P-7.57	the number of aircraft in the formation											NumberOfAircraft ::= INTEGER (1..2)	
P-7.58	free text associated with a flight											OtherInformation ::= FreeText	
P-7.59	a bearing from a fix point											PlaceBearing ::= SEQUENCE	
P-7.59.01		M					M					[0] FixName	See P-7.34
P-7.59.02		O					M					[1] LatitudeLongitude	See P-7.50
P-7.59.03		M					M					[2] Degrees	See P-7.23
P-7.60	a distance and bearing from a fix point											PlaceBearingDistance ::= SEQUENCE	
P-7.60.01		M					M					[0] PlaceBearing	See P-7.59
P-7.60.02		M					M					[1] Distance	See P-7.30
P-7.61	a point defined by distance and bearing from two fix points											PlaceBearingPlaceBearing ::= SEQUENCE SIZE (2) OF PlaceBearing	See P-7.61

Source: Chapter 7 - ASN.1												ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive						
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.62	position defined in various ways											Position ::= CHOICE	
P-7.62.01		M					M					[0] FixName	See P-7.34
P-7.62.02		M					M					[1] Navaid	See P-7.56
P-7.62.03		M					M					[2] Airport	See P-7.5
P-7.62.04		M					M					[3] LatitudeLongitude	See P-7.50
P-7.62.05		M					M					[4] PlaceBearingDistance	See P-7.60
P-7.63	the published identifier of a fix point											PublishedIdentifier ::= SEQUENCE	
P-7.63.01		M					M					[0] FixName	See P-7.34
P-7.63.02		M					M					[1] LatitudeLongitude	See P-7.50
P-7.64	the aircraft's registration											Registration ::= IA5String (SIZE(7))	
P-7.65	restrictions on a transferred flight											ReleaseIndicator ::= ENUMERATED	
P-7.65.01		M					M					climb (0)	
P-7.65.02		M					M					descent (1)	
P-7.65.03		M					M					turns (2)	
P-7.65.04		M					M					allActions (3)	
P-7.66	result of an operation ...											Result ::= ENUMERATED	
P-7.66.01		M					M					accepted (0)	
P-7.66.02		M					M					rejected (1)	
P-7.66.03	... extensibility	X					C.5					...	
P-7.67	aircraft route											Route ::= SEQUENCE	
P-7.67.01		M					M					SEQUENCE SIZE (1..128) OF RouteInformation	See P-7.68
P-7.67.02		M					M					[0] Position	See P-7.62
P-7.67.03		M					M					[1] Time	See P-7.79
P-7.67.04		M					M					[2] Level	See P-7.8
P-7.67.05		M					M					[3] SpeedGround	See P-7.71
P-7.67.06		M					M					[4] TrueTrackAngle	See P-7.87
P-7.68	route segment											RouteInformation ::= CHOICE	
P-7.68.01		M					M					[0] PublishedIdentifier	See P-7.63
P-7.68.02		M					M					[1] LatitudeLongitude	See P-7.50
P-7.68.03		M					M					[2] PlaceBearingPlaceBearing	See P-7.61
P-7.68.04		M					M					[3] PlaceBearingDistance	See P-7.60
P-7.68.05		M					M					[4] ATSRouteDesignator	See P-7.7
P-7.69	the aircraft's SELCAL code											Selcal ::= IA5String (SIZE(4))	

Source: Chapter 7 - ASN.1													
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements	Notes
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.70	the aircraft's speed											Speed ::= CHOICE	
P-7.70.01		M					M					[0] SpeedGround	See P-7.71
P-7.70.02		M					M					[1] SpeedGroundMetric	See P-7.72
P-7.70.03		M					M					[2] SpeedMach	See P-7.73
P-7.70.04		M					M					[3] SpeedIndicated	See P-7.74
P-7.70.05		M					M					[4] SpeedIndicatedMetric	See P-7.75
P-7.70.06		M					M					[5] SpeedTrue	See P-7.76
P-7.70.07		M					M					[6] SpeedTrueMetric	See P-7.77
P-7.71	speed (-50-2000)/1knot											SpeedGround ::= INTEGER (-50..2000)	
P-7.72	speed (-100-4000)/1ms ⁻¹											SpeedGroundMetric ::= INTEGER (-100..4000)	
P-7.73	speed (0-400)/1knot											SpeedIndicated ::= INTEGER (0..400)	
P-7.74	speed (0-800)/1ms ⁻¹											SpeedIndicatedMetric ::= INTEGER (0..800)	
P-7.75	speed (0.5-4)/0.001mach											SpeedMach ::= INTEGER (500..4000)	
P-7.76	speed (0-2000)/1knot											SpeedTrue ::= INTEGER (0..2000)	
P-7.77	speed (0-4000)/1ms ⁻¹											SpeedTrueMetric ::= INTEGER (0..4000)	
P-7.78	type of SSR equipment											SSREquipmentAvailable ::= ENUMERATED	
P-7.78.01		M					M					nnil	
P-7.78.02		M					M					atransponderModeA (1)	
P-7.78.03		M					M					ctransponderModeAandC (2)	
P-7.78.04		M					M					xatransponderModeS (3)	
P-7.78.05		M					M					ptransponderModeSPA (4)	
P-7.78.06		M					M					itransponderModeSID (5)	
P-7.78.07		M					M					satransponderModeSPAID (6)	
P-7.79	time of day											Time ::= SEQUENCE	
P-7.79.01		M					M					[0] TimeHours	See P-7.81
P-7.79.02		M					M					[1] TimeMinutes	See P-7.82
P-7.80	time of day											Timehhmmss ::= SEQUENCE	
P-7.80.01		M					M					Time	See P-7.79
P-7.80.02		M					M					TimeSeconds	See P-7.83

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.81	hour of the clock (0-23)/1hr											TimeHours ::= INTEGER (0..23)	
P-7.82	minutes of the hour (0-59)/1min											TimeMinutes ::= INTEGER (0..59)	
P-7.83	seconds in a minute (0-59)/1s											TimeSeconds ::= INTEGER(0..59)	
P-7.84	aircraft track data											TrackData ::= SEQUENCE	
P-7.84.01		M					M					[0] Position	See P-7.62
P-7.84.02		M					M					[1] Time	See P-7.79
P-7.84.03		M					M					[2] Level	See P-7.8
P-7.84.04		M					M					[3] SpeedGround	See P-7.71
P-7.84.05		M					M					[4] TrueTrackAngle	See P-7.87
P-7.85	aircraft track detail											TrackDetail ::= SEQUENCE	
P-7.85.01		M					M					[0] TrackName	See P-7.86
P-7.85.02		M					M					[1] LatitudeLongitude	See P-7.50
P-7.86												TrackName ::= IA5String (SIZE(1..6))	
P-7.87												TrueTrackAngle ::= Degrees	
P-7.88	the aircraft's rate of climb or descent											VerticalChange ::= SEQUENCE	
P-7.88.01		M					M					[0] VerticalDirection	See P-7.89
P-7.88.02		M					M					[1] VerticalRate	See P-7.90

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-7.89	climb/descent ...											VerticalDirection ::= ENUMERATED	
P-7.89.01	... climb	M					M					up (0)	
P-7.89.02	... descent	M					M					down (1)	
P-7.90	climb/descent rate											VerticalRate ::= CHOICE	
P-7.90.01		M					M					[0] VerticalRateEnglish	See P-7.91
P-7.90.02		M					M					[1] VerticalRateMetric	See P-7.92
P-7.91	climb/descent rate (0-3000)/ft min ⁻¹											VerticalRateEnglish ::= INTEGER (0..3000)	
P-7.92	climb/descent rate (0-1000)/ms ⁻¹											VerticalRateMetric ::= INTEGER (0..1000)	
P-7.93	the wake characteristic of an aircraft											WakeTurbulenceCategory ::= ENUMERATED	
P-7.93.01		M					M					high (0)	
P-7.93.02		M					M					medium (1)	
P-7.93.03		M					M					low (2)	
P-7.94	year (1996-2095)/1 year											Year ::= INTEGER (1996..2095)	
P-7.95	full date											YMDHMS ::= SEQUENCE	
P-7.95.01		M					M					[0] Date	See P-7.21
P-7.95.02		M					M					[1] Timehhmmss	See P-7.80

ADSP Status

- C.1 If Notif then **M** else —
C.2 If Coord then **M** else —
C.3 If TComm then **M** else —.
C.4 If TCntl then **M** else —.
C.5 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (note: no use of extensibility is specified for Version 1).
C.6 if (Notif or Coord or GInfo) then **M** else —
C.7 If (TSurv or GInfo) then **M** else —
C.8 If (TSurv or TComm) then **M** else —
C.9 If (TComm or TCntl or GInfo) then **M** else —
C.10 If GInfo then **M** else —

Table P-8: AIDC Parameters (basic elements - errors)

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-8.1	a diagnostic from the AIDC-service-provider ...											ProviderAbortReason ::= ENUMERATED	
P-8.1.01		M					M					protocolerror (0),	
P-8.1.02		M					M					timerexpired (1),	
P-8.1.03		M					M					undefinederror (2),	
P-8.1.04		M					M					providererror (3),	
P-8.1.05		M					M					rejectedpermanent (4),	
P-8.1.06		M					M					rejectedtransient (5),	
		M					M					sequenceerror (6),	
P-8.1.07	... extensibility	X					C.5					...	
P-8.2	AppError diagnostic information											ApplicationErrorData ::= SEQUENCE	
P-8.2.01		M					M					[0] MessageType	See P-8.3
P-8.2.02		M					M					[1] ComponentType	See P-8.4
P-8.2.03		M					M					[2] ErrorCode	See P-8.5
P-8.2.04		O					M					[3] ErrorData	See P-8.6
P-8.3	type of failed message ...											MessageType ::= ENUMERATED	
P-8.3.01		M					M					aidc-ucf-apdu (0)	
P-8.3.02		C.1					M					aidc-nfy-apdu (1)	
P-8.3.03		C.2					M					aidc-crd-start-apdu (2)	
P-8.3.04		C.2					M					aidc-crd-end-apdu (3)	
P-8.3.05		C.2					M					aidc-crd-ngtt-apdu (4)	
P-8.3.06		C.2					M					aidc-crd-stndby-apdu (5)	
P-8.3.07		C.3					M					aidc-tfr-init-apdu (6)	
P-8.3.08		C.3					M					aidc-tfr-rqst-apdu (7)	
P-8.3.09		C.3					M					aidc-tfr-prpsl-apdu (8)	
P-8.3.10		C.3					M					aidc-tfr-accept-apdu (9)	
P-8.3.11		C.4					M					aidc-tfr-cntrl-req-apdu (10)	
P-8.3.12		C.4					M					aidc-tfr-cntrl-rsp-apdu (11)	
P-8.3.13		C.3					M					aidc-tfr-comm-apdu (12)	
P-8.3.14		C.3					M					aidc-tfr-comm-assm-apdu	
P-8.3.15		C.7					M					aidc-inf-tfr-apdu (14)	
P-8.3.16		M					M					aidc-end-apdu	
P-8.3.17	... extensibility	X					C.5					...	

Source: Chapter 7 - ASN.1														
Ref No	Operational Elements : Capability of the system to process ...	Send					Receive					ASN.1 Protocol Elements	Notes	
		ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons			
P-8.4	field of failed message ...											ComponentType ::= ENUMERATED		
P-8.4.01		M					M					ctUnknown (0)		
P-8.4.02		M					M					ctNotApplicable (1)		
P-8.4.03		C.6					M					ctAircraftNumberType (2)		
P-8.4.04		M					M					ctBeaconCode (3)		
P-8.4.05		C.6					M					ctBoundaryEstimate (4)		
P-8.4.06		C.6					M					ctCNSEquipment (5)		
P-8.4.07		M					M					ctDepartureAirportTime (6)		
P-8.4.08		M					M					ctDestinationAirport (7)		
P-8.4.09		C.9					M					ctExecutiveData (8)		
P-8.4.10		M					M					ctFlightID (9)		
P-8.4.11		M					M					ctFlightRuleFlightType (10)		
P-8.4.12		C.10					M					ctFreeText (11)		
P-8.4.13		C.9					M					ctFrequency (12)		
P-8.4.14		C.10					M					ctFunctionalAddress (13)		
P-8.4.15		C.3					M					ctReleaseIndicator (14)		
P-8.4.16		M					M					ctRoute (15)		
P-8.4.17		C.8					M					ctTrackData (16)		
P-8.4.18		M					M					ctUnrecognised (255)		
P-8.4.19	... extensibility	X					C.5					...		

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-8.5	subfield of failed message ...											ErrorCode ::= ENUMERATED	
P-8.5.01		C.6					M					invalidNumberOfAircraft (0)	
P-8.5.02		C.6					M					invalidAircraftType (1)	
P-8.5.03		C.6					M					invalidWakeTurbulenceCategory (2)	
P-8.5.04		M					M					invalidBeaconCodeOctalDigit (3)	
P-8.5.05		C.6					M					invalidFixName (4)	
P-8.5.06		C.6					M					invalidNavaid (5)	
P-8.5.07		C.6					M					invalidAirport (6)	
P-8.5.08		M					M					invalidLatitude (7)	
P-8.5.09		M					M					invalidLongitude (8)	
P-8.5.10		M					M					invalidTime (9)	
P-8.5.11		M					M					invalidLevelFeet (10)	
P-8.5.12		M					M					invalidLevelMetre (11)	
P-8.5.13		M					M					invalidLevelFlightLevel (12)	
P-8.5.14		M					M					invalidLevelFlightLevelMetric (13)	
P-8.5.15		M					M					invalidATWLevelTolerance (14)	
P-8.5.16		M					M					invalidComNavEquipmentStatus (15)	
P-8.5.17		M					M					invalidSSREquipmentAvailable (16)	
P-8.5.18		M					M					invalidDataLink (17)	
P-8.5.19		M					M					invalidSpeedGround (18)	
P-8.5.20		M					M					invalidSpeedGroundMetric (19)	
P-8.5.21		M					M					invalidSpeedMach (20)	
P-8.5.22		M					M					invalidSpeedIndicated (21)	
P-8.5.23		M					M					invalidSpeedIndicatedMetric (22)	
P-8.5.24		M					M					invalidSpeedTrue (23)	
P-8.5.25		M					M					invalidSpeedTrueMetric (24)	
P-8.5.26		M					M					invalidVerticalDirection (25)	
P-8.5.27		M					M					invalidVerticalRateEnglish (26)	
P-8.5.28		M					M					invalidVerticalRateMetric (27)	
P-8.5.29		M					M					invalidAircraftIdentification (28)	
P-8.5.30		M					M					invalidSelcal (29)	
P-8.5.31		M					M					invalidRegistration (30)	
P-8.5.32		M					M					invalidAircraftAddress (31)	
P-8.5.33		C.6					M					invalidFlightRule (32)	
P-8.5.34		C.6					M					invalidFlightType (33)	
P-8.5.35		C.9					M					invalidFrequencyHF (34)	
P-8.5.36		C.9					M					invalidFrequencyVHFChannel	
P-8.5.37		C.9					M					invalidFrequencyUHF (36)	
P-8.5.38		C.9					M					invalidFrequencySatChannel	
P-8.5.39		C.10					M					invalidFunctionalAddress	
P-8.5.40		C.3					M					invalidReleaseIndicator (39)	
P-8.5.41		C.10					M					invalidDistancekm (40)	
P-8.5.42		C.10					M					invalidDistanceNM (41)	
P-8.5.43		C.9					M					invalidATSRRouteDesignator (42)	
P-8.5.44		C.8					M					invalidTrackName (43)	

Source: Chapter 7 - ASN.1		Send					Receive					ASN.1 Protocol Elements	Notes
Ref No	Operational Elements : Capability of the system to process ...	ADSP Status	Profile Status	Cons	Implementation Status	Cons	ADSP Status	Profile Status	Cons	Implementation Status	Cons		
P-8.5.45		M					M					invalidmsgnumber (250)	
P-8.5.46		M					M					invalidreferenceid (251)	
P-8.5.47		M					M					invalidcallingICAOFacilityDesignation	
P-8.5.48		M					M					invalidcalledICAOFacilityDesignation	
P-8.5.49		M					M					invalidtimestamp (254)	
P-8.5.50		M					M					unknown (255)	
P-8.5.51	... extensibility	X					C.5					...	
P-8.6	additional diagnostic data											ErrorData ::= BIT STRING (SIZE(1..256))	

ADSP Status

- C.1 If Notif then **M** else —
- C.2 If Coord then **M** else —
- C.3 If TComm then **M** else —.
- C.4 If TCntl then **M** else —.
- C.5 The implementation shall decode protocol elements encoded using extensibility sufficiently to ignore those that are not specified for the selected protocol version (Note: no use of extensibility is specified for Version 1).
- C.6 if (Notif or Coord or GInfo) then **M** else —
- C.7 If (TSurv or GInfo) then **M** else —
- C.8 If (TSurv or TComm) then **M** else —
- C.9 If (TComm or TCntl or GInfo) then **M** else —
- C.10 If GInfo then **M** else —