

ANNEX A – ADEXP FIELD DEFINITIONS (NORMATIVE)

A.1 Introduction

This Annex provides a listing of all the fields; Auxiliary Terms, Primary Fields and Sub-Fields which have been defined for use in ADEXP.

A.2 ADEXP Auxiliary Terms

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
adexpmsg	{ CHARACTER }	Free text conforming to the syntax described for an ADEXP message.		ifpdlong rfpdlong preproctxt postproctxt	
aidequipment	(('N' 'S') ! [equipmentcode]) equipmentcode	Radio communication, navigation and approach aid equipment.	ceqpt		
aircraftid	2{ ALPHANUM }7	Aircraft Identification.	arcid arcidk arcidold prevarcid		
aircraftidwldcrd	1{ ALPHANUM '+' '?' }7	Wildcard form of aircraftid to be used in Query messages: '?' replaces one character '+' replaces any number of characters.	arcidk		
atfmflightstate	'FI' 'FS' 'SI' 'TA' 'AA' 'CA' 'TE' 'SU'	The ATFM status of a flight. FI = Filed. FS = Filed slot allocated. SI = Slot issued. TA = ETFMS activated. AA = ATC activated. CA = Cancelled. TE = Terminated. SU = Suspended.	fltstate		
atfmmodeltype	'EST' 'CAL' 'ACT'	The type of flight model included. EST = The estimated model. CAL = The calculated model. ACT = The actual model.	modeltyp		
atfmrystate	'D' 'N'	The ready status of the flight. D = Ready to depart. N = Not ready to depart.	rdystate		
atfmreasonclass	'MSG' 'SYS' 'REG' 'MAN'	The ATFM reason for which a message is sent. MSG = The source of the message is an incoming or outgoing message. SYS = The message is automatically generated by a time trigger event. REG = The message is automatically generated by a slot recalculation event. MAN = The message is triggered by an FMD user command.	eventclass		
atsroute	2 {ALPHANUM} 7	The designator of an ATS route.	atsrt	refatsrte	

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
century	2{DIGIT}2	Two first digits of a century.			fulldate
coorstatusident	3 {ALPHA} 3	An indicator of the co-ordination status of a flight.		statid	
coorstatusreason	3 {ALPHA} 7	The reason for notifying a change in the co-ordination status.		statreason	
country	2{ALPHA}2	The two letter ICAO designator of a country.		refatsrte	
datalink	1{LIM_CHAR}50	One to 50 characters describing datalink applications or capabilities not specified elsewhere.	dat		
date	year ! month ! day	A date indication in the format, YYMMDD. e.g. 930424 = 24th. April 1993.	ada add aobd cda cobd ctod eldt eobd eobdk eobdold etod fstday iobd lstday sobd neweobd valfrom valfromk valfromold validitydate valuntil valuntilk valuntilold	eto	datetime
datetime	date ! timehhmm	A "date" term as described above and immediately followed by the time in the format, HHMM. e.g. 9304240930 = 0930Z on the 24th. April 1993.	origindt timestamp		
datewldcrd	1{ DIGIT '+' '?' }6	A "date" term which may be wild carded.	valfromk valuntilk		
day	('0' '1' '2' '3') ! DIGIT	A two digit number which may contain the digits from 00 to 31.	endtime filtim starttime	endreg from startreg until	date fulldate
emergradio	1 { 'U' 'V' 'E' } 3	Indicator of the type of emergency radio equipment on board the aircraft. May be one or more of the defined characters in any order but without repetition.	splr		
equipmentcode	1 { "A" "B" "C" "D" "E1" "E2" "E3" "F" "G" "H" "I" "J1" "J2" "J3" "J4" "J5" "J6" "J7" "K" "L" "M1" "M2" "M3" "O" "P1" "P2" "P3" "P4" "P5" "P6" "P7" "P8" "P9" "R" "S" "T" "U" "V" "W" "X" "Y" "Z" }	A valid ICAO code to indicate the equipment carried and its capabilities. May be one or more of the defined characters in any order but without repetition.			aidequipment

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
eqptcode	1{"A" "B" "C" "D" "E1" "E2" "E3" "F" "G" "H" "I" "J1" "J2" "J3" "J4" "J5" "J6" "J7" "K" "L" "M1" "M2" "M3" "O" "P1" "P2" "P3" "P4" "P5" "P6" "P7" "P8" "P9" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"}1	Code which identifies an equipment capability. May be identical to equipmentcode.		eqpt	
eqptstatus	1{ "EQ" "UN" "NO" }1	A status value describing the status of the aircraft equipment / capability where: "EQ" means the flight complies with the specified capability and/or the flight is equipped and the equipment is available for use "UN" means compliance with the capability is unknown and/or equipage status is unknown "NO" means the flight does not comply with the specified capability and/or the flight is not equipped or the equipment is unavailable for use		eqpt sureqpt	
errorcode	1{DIGIT}4	Error message code number.	error		
eurflightplanstatus	1{ "PROTECTED" }	An indication of an exemption or special status applicable to a flight within the EUR region.	eur		
eventtype	3{ALPHANUM}3	Indicating the type of event	event		
fieldid	1{ ALPHANUM }	Valid ADEXP field name (i.e. keyword).	errfield ifpsmod		
firindicator	4{ ALPHA }4	An ICAO designator of an FIR.	eetfir		
flightlevel	('F' 'A') ! 3{ DIGIT }3 ('S' 'M') ! 4{ DIGIT }4	A flight level expressed either as; "F" or "A" followed by three digits or, "S" or "M" followed by four digits.	rfl	crfl1 crfl2 efl fl tfl sfl ptrfl	

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
flightplanstatus	["ALTRV" "ATFMX" "FFR" "FLTCK" "HAZMAT" "HEAD" "HOSP" "HUM" "MARSA" "MEDEVAC" "NONRVSM" "SAR" "STATE"]	The reason for special treatment as indicated in Field 18 element 'STS'. ALTRV: for a flight operated in accordance with an altitude reservation; ATFMX: for a flight approved for exemption from ATFM measures; FFR: fire fighting; FLTCK: flight check for calibration of nav aids; HAZMAT: for a flight carrying hazardous material; HEAD: for a flight with Head of State status; HOSP: for a medical flight declared by medical authorities; HUM: for a flight operating on a humanitarian mission; MARSA: for a flight for which a military entity assumes responsibility for separation of military aircraft; MEDEVAC: for a life critical medical emergency evacuation; NONRVSM: for a non-RVSM capable flight intending to operate in RVSM airspace; SAR: for a flight engaged in a search and rescue mission; STATE: for a flight engaged in military, customs or police services.	sts		
flightrule	'I' 'V' 'Y' 'Z'	The flight rule indicator of a flight.	fltrul		
flighttype	'S' 'N' 'G' 'M' 'X'	The type of flight as indicated by the ICAO designator used.	flttyp		
flighttypechg	'OAT' 'GAT'	The indication provided in the route of flight of a change in the type of flight to 'OAT' or 'GAT'.	chgrul irules	ptrulchg	
fulldate	century ! year ! month ! day	A date indication in the format CCYYMMDD eg. 19970801 = 1st. Aug. 1997			fulldatetime
fulldatetime	fulldate ! timehhmm	A date, as described in 'fulldate', and immediately followed by the time in the format HHMM e.g. 199708010930 = 0930 hours on 1st. Aug. 1997	mesvalperiod		
geoname	"GEO" ! 2{DIGIT}2	The identification given to a geographical position expressed in latitude and longitude.		geoid	
heading	3{DIGIT}3	A three digit number in the range 001 to 360.	ahead track		
hexadecimal	['0' '1' '2' '3' '4' '5' '6' '7' '8' '9' 'A' 'B' 'C' 'D' 'E' 'F']	A character that belongs to the set of hexanumerics.	arcaddr	adsaddress cpdlcaddress hexaddr	

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
iatalocationcat	['A' 'D' 'E']	Regulation location code. A = Arrival D = Departure E = En-route	regcause		
iatadelaycode	2{ DIGIT }2	IATA delay code	regcause		
icaoaoerodrome	4{ ALPHA }4	A four letter ICAO designator for an aerodrome.	adarr adepk adepold ades adesk adesold altmnt1 altmnt2	adid	
icaoaoerodromewld crd	1{ ALPHA '+' '?' }4	Wildcard form of icaoaoerodrome, to be used in Query messages: '?' replaces one character '+' replaces any number of characters.	adepk adesk		
icaoaircrafttype	ALPHA ! 1{ ALPHANUM }3	An ICAO designator of an aircraft type.	arctyp		
icaomsg	{ CHARACTER }	An ICAO message. (conforming to the syntax described in Ref. {5})	msgtxt		
ifpsprocess	["IFPSTART" "IFPSTOP"]	Indication of initial IFPS processing of the flight.	irules	ptrulchg	
ifpuid	1{ ALPHANUM }	The identifier of an IFPS Unit.	ifpuresp		
ifpvalue	1{ "ERROUTRAD" "ERROUTWE" "ERRTYPE" "ERRLEVEL" "ERREOBT" "NON833" "833UNKNOWN" "MODESASP" "RVSMVIOLATION" "NONRVSM" "RVSMUNKNOWN" }	One or more indicators used to provide ATC with additional information concerning a flight.	ifp		
latitudelong	6{ DIGIT }6	A latitude expressed as six digits.		lattd	
latitudeside	'N' 'S'	An indicator for "North" or "South" latitude.		lattd	
lifejackets	1 { 'L' 'F' 'U' 'V' } 4	The ICAO indicator of the type of lifejackets carried. May be one or more of the defined characters in any order but without repetition.	splj		
longitudelong	7{ DIGIT }7	A longitude expressed as seven digits.		longtd	
longitudeside	'E' 'W'	An indicator for "East" or "West" longitude.		longtd	
machnumber	'M' ! 3{ DIGIT }3	The Mach number.	mach aspeed	crmach ptmach	
modifind	1{ ALPHANUM }	Indication of the type of modification made to a field.	ifpsmod		
month	('0' '1') ! DIGIT	Month, expressed as a two digit number.			date fulldate
numdays	('0' '1') ! ('0' '2') ! ('0' '3') ! ('0' '4') ! ('0' '5') ! ('0' '6') ! ('0' '7')	The indication of the days of the week on which a RPL is active.	days daysk daysold		
numdayswldcrd	1{ DIGIT '+' '?' }7	The indication of the days of the week on which a RPL is active. Wildcard characters may also be used.	daysk		
originatorid	1{ ALPHANUM }10	Identifier of the originator of a message.	orgnid qrorgn		

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
pbncode	1{ "A1" "B1" "B2" "B3" "B4" "B5" "B6" "C1" "C2" "C3" "C4" "D1" "D2" "D3" "D4" "L1" "O1" "O2" "O3" "O4" "S1" "S2" "T1" "T2"}8	ICAO defined codes giving the performance based navigation capability.	pbn		
performancecategory	1{ ["A" "B" "C" "D" "E" "H"] } 1	ICAO defined codes giving the performance category of the aircraft	per		
point	2{ ALPHANUM }5	The designator of a significant point. May be a published point, a geographical point, a reference point or a point given artificially such as a 're-named' point (RENxx).	applt atsrt chgrul cop dct dle eetpt mach rfl speed sid star	ptid refatsrte	
readyforimpr	'I' 'S'	The ready status of the flight. I = Ready for improvement. S = SIP wanted.	rdystate		
refbearing	3{ DIGIT }3	Reference Bearing value.		brng	
refname	"REF" ! 2{DIGIT}2	The identifier given to a point expressed by bearing and distance from a published point		refid	
regulationreason	['A' 'C' 'D' 'E' 'G' 'I' 'M' 'N' 'O' 'P' 'R' 'S' 'T' 'V' 'W']	The CFMU designator of the reason for a regulation.	regcause		
regulid	1{ ALPHANUM }20	The identification of an ATFM regulation concerning a flight.	regul	regid	
renameid	"REN" ! 2{DIGIT}2	Identifier of a re-named point.		renid	
rrteid	1{ ALPHANUM } 20	The identifier of a re-routing.	rrteref		
rtf	6{DIGIT}6	A radio frequency expressed in MHz to three decimal places.	freq		
rulechg	'VFR' 'IFR'	The indicators used in the route of a flight to indicate a change in the flight rules.	chgrul irules	ptrulchg	
seconds	('0' '1' '2' '3' '4' '5') ! DIGIT	Seconds. Two digits from "00" to "59".		eto eldt sto timestamp	
spd	('K' 'N') ! 4{ DIGIT }4	Speed. Expressed as either "K" or "N" followed by four digits.	aspeed speed	crspeed ptspeed	

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
surequipment	<p>"N" (1{ ("I" "P" "X") "A" "C" }3) (1{ "A" "C" "E" "H" "L" "S" }6) [1{ "B1" "B2" "D1" "G1" "U1" "U2" "V1" "V2" }8]</p> <p>Note: A total limit of 20 characters is applied</p>	<p>The ICAO designator of the surveillance capabilities and equipment carried..</p> <p>The descriptor 'N' or, either one or more of the descriptors 'I', 'P', 'X', 'A', 'C' with 'I', 'P', 'X' being mutually exclusive i.e. only one may be present, or one or more of the descriptors 'A', 'C', 'E', 'H', 'L', 'S'. Plus optionally one or more of the descriptors 'B1', 'B2', 'D1', 'G1', 'U1', 'U2', 'V1', 'V2' without repetition. A total limit of 20 characters is applied.</p>	seqpt		
surclass	1{"A" "S" "ADSB" "ADSC"}1	Surveillance equipment class where A=Modes A&C; S=ModeS; ADSB=ADS-B; ADSC=ADS-C		sureqpt	
sureqptcode	["A" "B1" "B2" "C" "D1" "E" "G1" "H" "I" "L" "P" "S" "U1" "U2" "V1" "V2" "X"]	Codes as specified by ICAO to indicate surveillance equipment carried.		sureqpt	
stayidentifier	'STAY' ! ('1' '2' '3' '4' '5' '6' '7' '8' '9')	Designator of a 'stay' period, a period of 'special activity' within the route of a flight.		ptstay stayident	
survialeqpt	1 { 'P' 'D' 'M' 'J' } 4	The ICAO designator of the survival equipment carried. May be one or more of the defined characters in any order but without repetition.	spls		
timehhmm	('0' '1' '2') ! DIGIT ! ('0' '1' '2' '3' '4' '5') ! DIGIT	Time, expressed in hours (2 digits 00-23) and minutes (2 digits 00-59). May be the time of day or a duration.	aatot aobt ata atd atfmdelay atot attot cobt cta ctot delay eldt endtime eobt eobtk eobtold etot filitm iobt minlineup newctot neweobt newptot ptot rejtctot respby sobt starttime taxitime	cto endreg eto from ptstay startreg sto time to until	datetime fulldatetime
timehhmm_elapsed	DIGIT ! DIGIT ! ('0' '1' '2' '3' '4' '5') ! DIGIT	An unlimited number of hours and minutes, used for durations.	dle eetfir eetpt sple tleet		
timemmss_elapsed	DIGIT ! DIGIT ! ('0' '1' '2' '3' '4' '5') ! DIGIT	An unlimited number of minutes and seconds, used for durations.	ttl ttg		

Auxiliary Term	Syntax	Semantic	Used in Primary Field	Used in Subfield	Used in Auxiliary
timewldcrd	1{ DIGIT '+' '?' }4	Wild card form of a timehhmm.	eobtk		
titleid	1{ ALPHA }10	A valid ADEXP message title. (see Annex B)	msgtyp orgmsg title		
waketurbcat	'H' 'M' 'L' 'J'	The ICAO wake turbulence category designator.	wktrc		
year	2{ DIGIT }2	Two last digits of a year.			date fulldate