A.4 ADEXP Subfields

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
addrinfo	c	'-' "ADDRINFO" networktype fac	Address information	unit	
adid	b	'-' "ADID" icaoaerodrome | 'ZZZZ'	The designator of an aerodrome. May contain the ICAO location indicator or the characters 'ZZZZ' where no location indicator has been assigned.	ad position stay	
adname	b	'-' "ADNAME" 1{LIM_CHAR}50	Name of an aerodrome.	altnz depz destz	
adsaddress	b	'-' "ADSADDRESS" (36{hexadecimal} 36) | (38{hexadecimal}38)	The ATN address of the ADS application. Must contain thirty six or thirty eight of the defined characters in any order, with or without repetition.		adsqvltsp
adsqvltsp	c	'-' "ADSQVLTSP" agappqualifier agappversion adsaddress'	Parameter containing the ATN ADS application type, version and address.	atnlogon	
agappqualifier	b	'-' "AGAPPQUALIFIER" 1{'0' | '2' | '3' | '22'} 1	ATN air/ground application type. Must contain one of the defined character groups.		atiqv, cpcqvltsp, adsqvltsp
agappversion	b	'-' "AGAPPVERSION" 3{ '00' | '01' | '02'} 3	ATN air/ground application version for all 3 applications.		atiqv, cpcqvltsp, adsvltsp
airroute	c	'-' "AIRROUTE" [num] refatsrte flblock valperiod [remark]	Description of all or part of an ATS route during a specified period.	lacdr lcatsrte	
airspace	c	'-' "AIRSPACE" [num] airspdes flblock valperiod respunit [remark]	Description of all or part of an airspace during a specified period.	latsa lrar lrca	
airspdes	b	'-' "AIRSPDES" 3 { ALPHANUM }12	Designates an airspace other than an ATS route.	entrydata	airspace
appname	b	'-' "APPNAME" 'ADS' I 'ATC'	FANS ATN air/ground application name	fanslogon	
appversion	b	'-' "APPVERSION" 2{ '00' | '01'}2	FANS air/ground application version for all 2 applications.	fanslogon	
asp	c	'-' "ASP" airspdes eti xti	Designator of the airspace and entry and exit times.	asplist	
atiqv	c	'-' "ATIQV" agappqualifier agappversion	Parameter containing the ATN ATI application type and ATN ATI application version.	atnlogon	
brng	b	'-' "BRNG" refbearing	Bearing of a point from a navigation aid in degrees magnetic.	ref	
cmltsp	c	'-' "CMLTSP" hexaddr	Transport layer address, which defines the CM application of the aircraft.	atnlogon	
condition	b	'-' "CONDITION" 2 {ALPHA} 20	Type of condition or restriction e.g. TOS, FL restriction.	ignore	
cpcqvltsp	c	'-' "CPCQVLTSP" agappqualifier agappversion cpdlcaddress	Parameter containing the ATN CPDLC application type, version and address.	atnlogon	
cpdlcaddress	b	'-' "CPDLCADDRESS" 36{hexadecimal}36) | (38{hexadecimal}38)	The ATN address of the CPDLC application. Must contain thirty six or thirty eight of the defined characters in any order, with or without repetition.		cpcqvltsp
crfl1	b	'-' "CRFL1" flightlevel	The lower limit of the flight level band within which a cruise climb is requested.	crsclimb	ptcrsclimb

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
crfl2	b	'-' "CRFL2" (flightlevel | "PLUS")	The upper limit of the flight level band within which a cruise climb is requested. "PLUS" where the upper limit is unknown.	crsclimb	ptcrsclimb
crmach	b	'-' "CRMACH" machnumber	The Mach No. maintained during a cruise climb.	crsclimb	ptcrsclimb
crspeed	b	'-' "CRSPEED" spd	The speed to be maintained during a cruise climb.	crsclimb	ptcrsclimb
cto	b	'-' "CTO" timehhmm	Calculated Time Over a point.	ad position	pt
distnc	b	'-' "DISTNC" 1{ DIGIT }3	Distance of a point from a navigation aid in nautical miles. Must be 1 to 3 digits, possibly with leading zeroes.	ref	
efl	b	'-' "EFL" flightlevel	Estimated flight level.	Reserved for future use.	
endreg	b	'-' "ENDREG" day!timehhmm	The time at which an ATFM Regulation finishes.		exccond regulation
eqpt	b	'-' "EQPT" eqptcode ! '/' ! eqptstatus	Equipment capability code followed by a status value which specifies the current status of the capability.	eqcst	
eti	b	'-' "ETI" datetime ! seconds	The entry time of an airspace or a regulation.		asp
eto	b	'-' "ETO" date ! timehhmm ! seconds	Estimated Time Over a point, in year, month, day, hours, minutes and seconds.	ad afildata estdata position vec	pt
exccond	c	'-' "EXCCOND" regnum refloc regreason startreg endreg [flblock] [rvrlimit] [remark]	An "exceptional condition" raised in the context of ATFM e.g. fog at an aerodrome.		reglist
fac	b	'-' "FAC" 1{ LIM_CHAR }30	Address data.	addr cassaddr extaddr origin spladdr	addrinfo recvr sender
fir	b	'-' "FIR" 7{ ALPHA }7	Designates a FIR or UIR.	lfir	
fl	b	'-' " FL" flightlevel	A generic flight level field. May be a "SFL", "EFL", "CFL", "RFL", etc. depending on its context.	ad afildata cfl entrydata estdata flband position vec.	flblock pt
flblock	c	'-' "FLBLOCK" fl fl	A flight level block defining an airspace vertically, inclusive of the flight levels given. A block defined as below or above a flight level shall be expressed respectively as from flight level 000 to the specified level or as from the specified level to flight level 999.	ad rrteto rrtefrom tfv	airspace airroute pt regulation exccond
flow	c	'-' "FLOW" frompos [via1] [via2] topos [via3] [via4] flowrole	Description of a 'flow' giving the source area, optionally the routes or points to be overflown from the source area, the destination area and optionally the routes or points to be overflown to the destination area.		flowlst
flowlst	c	'-' "BEGIN" "FLOWLST" 1 {flow} '-' "END" "FLOWLST"	List of traffic flows.	rrteto rrtefrom tfv	
flowrate	b	'-' "FLOWRATE" 3{LIM_CHAR}7	The "rate" which is imposed by an ATFM Regulation.		rateperiod

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
flowrole	b	'-' "FLOWROLE" 'EX' | 'IE' | 'EM' | 'IN'	An indication of the 'role' of a flow. EX = excluded IE = included exempted EM = exempted IN = included		flow
from	b	'-' "FROM" day!timehhmm	The time from which a period of time begins.	rvrperiod	rateperiod
frompos	b	'-' "FROMPOS" 1 {ALPHANUM} 15	A position from which a route, a route portion, a 'path' or a flow begins. May be a region, an aerodrome or a significant point.		flow
geoid	b	'-' "GEOID" geoname	Identifier of a geographical point made of "GEO" followed by a sequence number (example: "GEO12").	geo	
hexaddr	b	'-' "HEXADDR" (36{hexadecimal}36) | (38{hexadecimal}38)	Hexadecimal address which must contain either thirty six or thirty eight hexadecimal characters.		cmltsp
ifpdlong	c	'-' "BEGIN" "IFPDLONG" adexpmsg '-' "END" "IFPDLONG"	Complete information concerning an individual flight plan.	ifpdlist	
ifpdsum	c	'-' "IFPDSUM" arcid adep ades eobt orgn	Summary information concerning an individual flight plan. It contains the arcid, adep, ades, eobt and orgn fields.	ifpdslist	
ilscat	b	'-' "ILSCAT" ("I" | "II" | "IIIa" | "IIIb" | "NOILS")	The active status of ILS category (I, II, IIIa, IIIb) or ILS not available.		rwyinfo
lastnum	b	'-' "LASTNUM" 3{DIGIT}3	A three digit number indicating the end of a sequence.		
lattd	b	'-' "LATTD" latitudelong ! latitudeside	Latitude in degrees, minutes, seconds and direction (North or South).	eetlat geo	
longtd	b	'-' "LONGTD" longitudelong ! longitudeside	Longitude in degrees, minutes, seconds and direction (East or West).	eetlong geo	
networktype	b	'-' "NETWORKTYPE" 2{ALPHANUM}10	Indication of the type of network used for a message exchange.	origin	addrinfo
num	b	'-' "NUM" 3{DIGIT}3	A three digit number.	extaddr part sequencedata	airspace airroute
penrate	b	'-' "PENRATE" 3{LIM_CHAR}7	The "pending rate", used for ATFM purposes.		rateperiod
postproctxt	b	'-' "POSTPROCTXT" adexpmsg	Contains a complete ADEXP message after it has been processed.	adexptxt	
preproctxt	b	'-' "PREPROCTXT" adexpmsg	Contains a complete ADEXP message prior to it being processed i.e. as it was received.	adexptxt	
pt	c	'-' "PT" ptid [(fl | flblock)] [sfl] [eto] [to] [cto] [sto] [ptrte] [ptstay] [ptrfl] [ptrulchg] [(ptspeed | ptmach)] [ptcrsclimb]	Point along a route. => Contains a point identification and optionally; - a flight level or flight level block, - a supplementary flight level, - a time reference(s), - a cruise climb - a routing indication - an indication of a period of 'special activity', i.e. that the flight will 'stay' in the area for a period of time Change in: - RFL, flight rules, speed/Mach No.	rtepts	

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
ptcrsclimb	c	'-' "PTCRSCLIMB" (crspeed | crmach) crfl1 crfl2	Indication in the route of a flight of a cruiseclimb. Giving the speed or mach no. followed by the two levels indicating the flight level band to be occupied during the climb. The second level may be "PLUS" where the upper level is unknown.		pt
ptfltrul	b	'-' "PTFLTRUL" 'VFR' | 'IFR'	An indication of the flight rules which are applicable at the point concerned.	entrydata	
ptid	b	'-' "PTID" point	Point identification, either coded designator or a name given artificially (GEOxx, REFxx or RENxx).	afildata altnz cfl coordata crsclimb depz destz dle entrydata estdata ignore position ref rename stay	pt
ptmach	b	'-' "PTMACH" machnumber	Mach number, in hundredths of a unit, associated to a point on the route.	ad entrydata	pt
ptmilrul	b	'-' "PTMILRUL" 'OAT' | 'GAT'	An indication of the 'military' flight rules which are applicable at the point concerned.	entrydata	
ptrfl	b	'-' "PTRFL" flightlevel	Requested flight level, associated to a point on the route.	ad entrydata	pt
ptrte	b	'-' "PTRTE" 2{LIM_CHAR}	The route of flight following the point indicated. May be the complete route to the destination aerodrome or simply the routing element to the next point.		pt
ptrulchg	b	'-' "PTRULCHG" 1{rulechg flighttypechg ifpsprocess}3	Indication of a change in one or more of "flight rules"(VFR/IFR), the "type of flight" (OAT/GAT), and/or the ifpsprocess (Stop/Start)	ad	pt
ptspeed	b	'-' "PTSPEED" spd	True airspeed (in kilometres per hours or knots) associated to a point on the route.	ad entrydata	pt
ptstay	b	'-' "PTSTAY" stayidentifier timehhmm	Indication within the filed route of flight of a period of 'special activity' when the aircraft will 'stay' in the area defined for the length of time given, i.e. training, mid-air re-fuelling, etc.	ad	pt
rateperiod	c	'-' "RATEPERIOD" from until flowrate penrate	A period of time during which the given flow rates are applicable for an ATFM Regulation.	ratepdlst	regcond
recvr	b	'-' "RECVR" fac	The receiver of the referenced message.	msgref refdata	
refatsrte	b	'-' "REFATSRTE" atsroute point [country] point [country]	ATS route designator and identifiers of first and last points. The points listed may be ICAO identifiers or artificially given GEOxx, RENxx or REFxx points. The identifier of the country within which the point is located may optionally be included. The end points must be consistent with the route information.		airroute
refid	b	'-' "REFID" refname	Identifier of a reference point made of "REF" followed by a sequence number (example : "REF02").	ref	

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
refloc	b	'-' "REFLOC" 1{LIM_CHAR}15	Reference location of an ATFM Regulation.	rrteto rrtefrom tfv	exccond regulation
regcond	c	'-' "BEGIN" "REGCOND" {rateperiod} '-' "END" "REGCOND"	List of time periods and their respective flow rates for a particular regulation.		regulation
regdesc	b	'-' "REGDESC" 1{LIM_CHAR}	Description of an ATFM Regulation.		regulation
regid	b	'-' "REGID" regulid	Identification of a flow management "Regulation".		regulation
reglist	c	'-' "BEGIN" "REGLIST" regulation [exccond] '-' "END" "REGLIST"	List of "Regulations" for flow management purposes.	fmplist	
regnum	b	'-' "REGNUM" 3{DIGIT}3 ! "/" ! 2{DIGIT}2	A reference number for an ATFM "Regulation". Provides a unique reference followed by a validity indication.		exccond regulation
regreason	b	'-' "REGREASON" 4 {ALPHA} 12	The reason for an ATFM Regulation.		exccond regulation
regulation	c	'-' "REGULATION" regnum regid regdesc refloc startreg endreg [flblock] [remark] [tfvid] [regreason] [regcond]	A "Regulation" imposed for flow management purposes.		reglist
remark	b	'-' "REMARK" 1{LIM_CHAR}	A remark about the item, the description of which this field is a part.	stayinfo	airspace airroute exccond regulation
renid	b	'-' "RENID" renameid	Identifier given to a point which is repeated in the route description.	rename	
respunit	b	'-' "RESPUNIT" 3{ALPHA}12	The responsible ATC Unit.		airspace
rfpdlong	c	'-' "BEGIN" "RFPDLONG" {adexpmsg} '-' "END" "RFPDLONG"	Complete information concerning a repetitive flight plan.	rfpdlist	
rfpdsum	c	'-' "RFPDSUM" arcid adep ades eobt orgn days valfrom valuntil	Summary of the information concerning a repetitive flight plan. It contains the arcid, adep, ades, eobt, orgn, days, valfrom and valuntil fields.	rfpdslist	
rvrlimit	b	'-' "RVRLIMIT" 3{DIGIT}3	Runway Visual Range: operating minima when special meteorological conditions exist. Expressed in meters.	rvrperiod	exccond
rwyavail	b	'-' "RWYAVAIL" ('D' | 'A' | 'C' | 'B')	Availability of the runway: D: open for departures A: open for arrivals C: closed B: open for departures and arrivals		rwyinfo
rwyid	b	'-' "RWYID" 2 { DIGIT } 2 ! ('L' | 'R' | 'C')	Runway identifier		rwyinfo
rwyinfo	c	'-' "RWYINFO" rwyid rwyavail [ilscat]	Contains configuration data for a specific runway	rwylist	
sender	b	'-' "SENDER" fac	The sender of the referenced message.	msgref refdata	
seqnum	b	'-' "SEQNUM" 3{DIGIT}3	The serial number of the message being sent (a 3 digit number unique to the sender/receiver combination).	msgref refdata	
sfl	b	'-' "SFL" flightlevel ! ('A'|'B')	Supplementary flight level. The flight level at or above which or, at or below which a flight has been or will be co-ordinated to cross one point. Consists of a flight level number and a crossing condition (either 'A' if the aircraft will cross the point at or above the level, or 'B' if the aircraft will cross the point at or below the level).	coordata estdata propfl	pt
startreg	b	'-' "STARTREG" day!timehhmm	The time at which an ATFM Regulation becomes effective.		exccond regulation

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
statid	b	'-' "STATID" coorstatusident	The indicator of the co-ordination state of a flight.	cstat	
statreason	b	'-' "STATREASON" coorstatusreason	The reason for a change in the co-ordination status of a flight.	cstat	
stayident	b	'-' "STAYIDENT" stayidentifier	Identification of a period of 'special activity' or a 'stay' within the route of a flight.	stay stayinfo	
sto	b	'-' "STO" timehhmm ! seconds	A generic time field which may contain the time for a point or for an aerodrome. The time may be an estimated, calculated or actual time depending upon its context.	ad coordata position	pt
sureqpt	b	'-' "SUREQPT" surclass ! "/" ! eqptstatus [! "/" ! sureqptcode]	Surveillance equipment class, followed by a status value which specifies the current status of the equipment. When appropriate the current capability for the class may be provided.	eqcst	
tfl	b	'-' "TFL" flightlevel	Transfer Flight Level. The flight level at which a flight has been or will be co-ordinated to cross one point (flight level number), if in level flight, or the cleared level to which it is proceeding if climbing or descending at the boundary point.	coordata propfl	
tfvid	b	'-' "TFVID" 1{ALPHANUM}15	Identification of a "traffic volume".	rrteto rrtefrom tfv	regulation
time	b	'-' "TIME" timehhmm	A time indication. May be an actual time or a period of time, depending upon the message context.	stay	
to	b	'-' "TO" timehhmm	"Time Over/Off". A generic time field which may contain the time for a point or for an aerodrome. The time may be an estimated, calculated or actual time depending upon its context.	position coordata	pt
topos	b	'-' "TOPOS" 1 {ALPHANUM} 15	A position to which a route, a route portion, a 'path' or a flow extends. May be a region, an aerodrome or a significant point.		flow
txtime	b	'-' "TXTIME" datetime seconds	A transmission time indication.	sequencedata	
unitid	b	'-' "UNITID" 2{ ALPHANUM}10	Identification of an air navigation unit i.e. an ATC unit, aircraft operator or flight plan originator.	unit	
until	b	'-' "UNTIL" day!timehhmm	The time at which a period of time ends.	rvrperiod	rateperiod
valperiod	b	'-' "VALPERIOD" fulldatetime fulldatetime	A validity period, inclusive of the times given.		airroute airspace
via1	b	'-' "VIA1" 1 {ALPHANUM} 15	A point, an ATS route or an airspace which is either on or is required to be on the route of flight. When it is required to indicate more than one this field will contain the first in the sequence.		flow
via2	b	'-' "VIA2" 1 {ALPHANUM} 15	A point, an ATS route or an airspace which is either on or is required to be on the route of flight. When it is required to indicate more than one this field will contain the second in the sequence.		flow
via3	b	'-' "VIA3" 1 {ALPHANUM} 15	A point, an ATS route or an airspace which is either on or is required to be on the route of flight. When it is required to indicate more than one this field will contain the third in the sequence.		flow

Subfield	Kind	Syntax	Semantic	Used in Primary Field	Used in Subfield
via4	b	'-' "VIA4" 1 {ALPHANUM} 15	A point, an ATS route or an airspace which is either on or is required to be on the route of flight. When it is required to indicate more than one this field will contain the fourth in the sequence.		flow
xti	b	'-' "XTI" datetime ! seconds	The exit time of an airspace or a regulation.		asp