

Introduction

Professional Flight Planner X (PFPX) allows users to create custom Operational Flight Plan (OFP) formats in a pretty straightforward and easy way. Formats are stored in plain text a simple Text File (*.txt). Fields and sections can be used to create custom flight plan formats.

Revisions are marked in red color

General

The template files are located in `\\Documents\PFPX Data\FlightplanTemplates`. The default template is stored in the **PFPX.txt** file. We highly recommend to leave this file unchanged and to create a new one. Once a new text file is created in this directory, a new drop down item appears on the Results/OFP/Format ribbon dropdown box.

Best practice to create new layouts is to calculate a flight and to keep the text file open in parallel with PFPX. Once changes in the text file are saved, just re-select the appropriate format in PFPX and the changes are shown immediately.

The default PFPX.txt template file contains most of the fields and sections available and can be used for consultation if questions arise.

Note: A flight plan template file should also contain sections for re-dispatch and ETOPS planning

Fields

The template file itself consists of text, sections and fields. A field or a section must be encapsulated between `<&` And `>`. A field showing trip fuel would be `<&TripFuel>`. Depending in the type of the field some formatting can be done using parameters. As `<&TripFuel>` is a field of the type 'Weight', we can add a parameter to adjust the appearance of the field:

<code><&TripFuel[0]></code>	37491
<code><&TripFuel[1]></code>	+37491
<code><&TripFuel[2]></code>	37.5
...	
<code><&TripFuel[5]></code>	THREE SEVEN FOUR NINER ONE

Fields can also be adjusted in length to obtain the desired layout by adding a parameter. E.g. `<&TripFuel[1]:10>` would force the field to be 10 characters long. Any other numerical value can be used to adjust field length.

The alignment of a field can be adjusted by adding one of the following parameters:

<code>/L</code>	Text aligned to the left
<code>/C</code>	Text centered
<code>/R</code>	Text aligned to the right

By default, Text fields are aligned to the left, Weight/Time fields are aligned to the right. E.g. to right align a field, the following coding can be used: `<&RouteName/R>`

Length, parameter and alignment data can be combined. E.g. `<&TripTime[2]:10/R>` would be Trip Time with parameter 2 (Format hh:mm) with a length of 10 characters aligned to the right.

Sections

Sections are only shown if special conditions are met. E.g. the Section 'EROPS' is only shown if the flight is planned using the Extended Range (EROPS) option. If the flight is planned without EROPS, the section is removed from the final flight plan. A section always begins with the section name followed by `'_Begin'` and end with the section name followed by `'_End'`. For example a section only shown for EROPS flights could look like this:

`<&EROPSSection_Begin>THIS FLIGHT IS PLANNED USING EROPS<&EROPSSection_End>`



Field types

Fields are assigned a certain 'type' allowing special formats to be applied. The following field types are available:

Special fields

Some special fields are available for formatting purposes:

WU[0]	KG or LB	Weight units (short)
WU[1]	KILOGRAMS or POUNDS	Weight units (long)
AU[0]	FT or M	Altitude units (short)
AU[1]	FEET or METER	Altitude units (long)
DU[0]	FT or M	Distance units (short)
DU[1]	FEET or METER	Distance units (long)
Width	(Width in characters)	Breaks lines longer than maximum number of characters. After line break an 'indent' of blank spaces is added (see Indent)
Indent	(Indent after page break)	Adds blank characters after line break (Only functional if Width parameter set)
NewPage		Begin a new page (For printing only)
#	Special formatting field (E.g. <code><&#[2]:30></code> causes the field to begin at the 30st character from left (line feed) and ensures that two characters left of the field are blank	

Weight / Fuel fields

Weight or Fuel type fields indicate a weight in either Kilograms (KG) or Pounds (LBS), depending on the aircraft weight unit settings. Conversion is done automatically by PFPX.

The following formatting parameters can be used:

[0]	37491	Weight in KG or LB
[1]	+37491	Weight in KG or LB with preceeding '+' or '-'
[2]	37.5	Weight in 1000s of KG or LB
[3]	+37.5	Weight in 1000s of KG or LB with preceeding '+' or '-'
[4]	37.5	Weight format depending on total fuel capacity (up to 10000 KG OR LB XXXXXX, above 10000 KG OR LB XXX.X)
[5]	THREE SEVEN FOUR NINER ONE	Weight in words
[6]	0037491	Weight in KG or LB with leading zeros
[7]	0000375	Weight in 100s of KG or LB with leading zeros
[8]	37500	Weight in KG or LB rounded up to the next 100 KG/LB
[9]	037.491	Weight in KG or LB with leading zeros including separator
[10]	037.500	Weight in KG or LB rounded up to the next 100 KG/LB with leading zeros including separator

Note: For signed fields add 100 ('+' or '-') or 1000 ('P' or 'M'). E.g. [1002] gives P37.5

Time fields

[0]	08:07	Time in hh:mm
[1]	0807	Time in hhmm
[2]	08.07	Time in hh.mm
[3]	8:07	Time in h:mm
[4]	8.07	Time in h.mm
[5]	08/07	Time in hh/mm
[6]	8/07	Time in h/mm
[7]	:15	Time in hh:mm or mm only, if less than 60 minutes
[8]	15	Time in hh.mm or :mm only, if less than 60 minutes
[9]	.15	Time in hh.mm or .mm only, if less than 60 minutes
[10]	08+07	Time in hh+mm
[11]	8.07	Time in h.mm (with leading zero; e.g. 0.27)

Note: For signed fields add 100 ('+' or '-') or 1000 ('P' or 'M'). E.g. [1004] gives P8.07



Date fields

[0]	06May2013
[1]	Mon 6 May 2013
[2]	Mon, 6 May
[3]	06 May 2013
[4]	06 May/10:35
[5]	06May
[6]	2013/05/06
[7]	06-05-13
[8]	06 May
[9]	06 May 10:35
[10]	06 May 1035
[11]	13/06/05
[12]	06 May 13
[13]	06 May
[14]	06May 2013
[15]	06052013103520
[16]	05/06/13
[17]	061035
[18]	06/May 10:35
[19]	06May/10:35
[20]	06
[21]	May
[22]	2013
[23]	13 (2-digit year)
[24]	06/05/14

Airport fields

[0]	LOWS	ICAO code
[1]	SZG	IATA code (if available)
[2]	LOWS/SZG	ICAO with IATA code (if available)
[3]	SALZBURG	Airport name
[4]	(Info)	Airport General Information as set in Airport record or 'NIL' if empty
[5]	AUSTRIA	Name of country airport located in

Coordinates

[0]	N35 34.2
[1]	N35° 34' 12.54
[2]	N3534.2
[3]	3534N
[4]	N35°34'13"
[5]	N35 34.13
[6]	N35342

Altitude fields

[0]	FL353 or FL117M
[1]	35300 or 11700
[2]	350 or 117 (rounded to nearest 100ft)

Available fields

The following fields are presently available in PFPX. Field codes may be adjusted and/or new ones added. Please make sure you



are using the latest version of PFPX and this document.

General fields

Adults	Text	Number of Adults
AircraftType	Text	
AircraftTypeATC	Text	Aircraft ATC designator
AircraftTypeLong	Text	
AircraftTypeShort	Text	
AirDist	Distance	Air Distance from Origin to Destination
Airline	Text	Airline code
Altn1Elev	Text	
Altn2Elev	Text	
Altn3Elev	Text	
Altn4Elev	Text	
ATCFlightplan	Text	Complete ICAO ATC flight plan
ATCRoute	Text	Routing in ICAO format with ATC speed/level changes. Length parameter defines line break position.
ATCRoute1	Text	Routing in ICAO format - Route string only (including departure and destination). Length parameter defines line break position.
ATCRouteFAA	Text	Routing in FAA format without departure and destination. Length parameter defines line break position.
ATCRouteFAA1	Text	Routing in FAA format including departure and destination. Length parameter defines line break position.
AvCruiseFF	Weight	Average Fuel Flow (From first TOC to last TOD)
AverageTemperature	Text	Average Temperature in °C
AvFF	Weight	Average Fuel Flow (From Dep to Dest)
AvgFuelFlow	Weight	Average Fuel Flow per Hour
AvgISADev		[0] Average ISA Deviation in °C +03 / -03 [1] Average ISA Deviation in °C P03 / M03
AvgWind	Text	Average Wind
Baggage	Weight	
Cargo	Weight	
Children	Text	Number of Children
Class2TotalTime	Time	Total time in Class II airspace
ClimbFuelBias	Text	[0] 105.0 [1] 5.0 [2] +5.0 [3] P5.0
ClimbSpeed	Text	
CompanyFlightNr	Text	[0] VA123 [1] VA123/ [2] /VA123
Configuration	Text	
Crew1	Text	Name of Crewmember 1 (First Officer)
Crew2	Text	Name of Crewmember 2 (Second Officer)
Crew3	Text	Name of Crewmember 3 (Flight Engineer / Relief Pilot)
CruiseFuelBias	Text	[0] 105.0



		[1] 5.0 [2] +5.0 [3] P5.0
DepartureDate	Date	Day of Flight (Scheduled departure)
DepRwy	Text	Take-Off runway (empty if not set)
DescentFuelBias	Text	[0] 105.0 [1] 5.0 [2] +5.0 [3] P5.0
DescentSpeed	Text	
DestRwy	Text	Landing runway (empty if not set)
DispatcherName	Text	
DOW	Weight	Dry Operating Weight (DOW) or Operating Empty Weight (OEW)
DragBias	Text	[0] 105.0% [1] 5.0%
EET	Time	Scheduled Ellapsed Time (From Block-Off to Block-On)
EngineType	Text	
EnrouteAltn	Airport	Enroute Alternate (EU-OPS)
EnrouteAltnEarliest	Time	One hour before time at closest point to Enroute Alternate Only shown, if fuel policy allows Enroute Alternate option and Enroute Altenrate is set
EnrouteAltnElev	Text	
EnrouteAltnLatest	Time	One hour after time at closest point to Enroute Alternate Only shown, if fuel policy allows Enroute Alternate option and Enroute Altenrate is set
EstimatedLandingTime	Time	Planned time of Touch-down
EstimatedLandingTimeLocal	Time	Planned time of Landing in Local Time
EstimatedTakeOffTime	Time	Planned time of Take-Off
EstimatedTakeOffTimeLocal	Time	Planned time of Take-Off in Local Time
ETA	Time	Estimated Time of Arrival (Block-On)
ETALocal	Time	Estimated Time of Arrival (Block-On) in Local Time
ETD	Time	Estimated Time of Departure (Block-Off)
ETDLocal	Time	Estimated Time of Departure (Block-Off) in Local Time
ETOPSAirports	Text	A list of all ETOPS airports. Length parameter defines line break position. [0] ICAO codes (e.g. EINN CYYT) [1] IATA codes (e.g. SNN YYT)
FinalCruiseAlt	Altitude	Last Cruise Altitude
FlightNr	Text	Flight number or Callsign
ForInfoOnly	Section	Only shown if the flight plan has not yet been released (i.e. The preview of an OFP on the 'Results' page)
FPDist	Distance	Flight plan Distance from Origin to Destination
From	Airport	Origin airport/fix
FromElev	Altitude	Departure airport elevation
FromLatitude	Coords	Origin Latitude
FromLongitude	Coords	Origin Longitude



FuelCapacity	Weight	
FuelPolicy	Text	Name of the Fuel Policy used for flight planning (e.g. 'EU-OPS')
GCDist	Distance	Great Circle Distance from Origin to Destination
Infants	Text	Number of Infants
InflightAPU	Section	Shown, if APU is selected ON during entire flight
InitCruiseAlt	Altitude	First Cruise Altitude
InitCruiseSpeed	Text	[0] Shows cost index preceded by CI (e.g. CI85) [1] Shows cost index only (e.g. 85)
LDW	Weight	Landing Weight (Take-Off Weight - TripFuel)
LimMTOW	Weight	The lower of MTOW and MLDW + Trip fuel
MaxAllowZFW	Weight	Maximum allowable Zero Fuel Weight (the lower of structural and performance limits)
MaxExtraFuel	Weight	Maximum amount of extra fuel that can be carried
MaxExtraFuelLimit	Text	Can be RMP, TOW, LDW or CAPACITY
MaxPax	Text	Passenger Capacity (Seats)
MaxPayload	Weight	Maximum possible Payload
MaxShearAltitude	Altitude	Altitude at waypoint where maximum shear factor is encountered (see MaxShearFactor)
MaxShearFactor	Text	Maximum Wind Shear Value [0] 2 [1] 02 (with leading zeros) [2] 1.9 (with decimal)
MaxShearWaypoint	Text	Waypoint Identifier with highest shear factor (see MaxShearFactor)
MaxTaxiWeight	Weight	LimMTOW+Taxi out fuel
MLDW	Weight	Maximum Landing Weight
MRW	Weight	Maximum Ramp Weight
MTOW	Weight	Maximum Take-Off Weight
MZFW	Weight	Maximum Zero Fuel Weight
Payload	Weight	Passengers + Baggage + Cargo
PIC	Text	Name of Pilot In Command (PIC)
PlannedEET	Time	Planned Ellapsed Time (From Block-Off to Block-On)
PlanningDate	Date	Date when flight was planned
PlanningTime	Time	Time when flight was planned
RedispatchLDW	Weight	Landing Weight at Redispatch Destination
Registration	Text	Aircraft registration
ReleaseNumber	Text	OFP Number (Starting with '1') [0] without leading zeros (e.g. 1) [1] with leading zeros (e.g. 0001)
Remarks	Section	Only Shown if 'Remarks' field is not empty
RouteName	Text	
RouteRemarks	Text	
RW	Weight	Ramp Weight
ScheduledEET	Time	Scheduled Ellapsed Time (From Block-Off to Block-On)
ScheduledLandingTime	Time	Scheduled time of Touch-down
ScheduledLandingTimeLocal	Time	Scheduled time of Touch-down in Local Time



ScheduledTakeOffTime	Time	Scheduled time of Take-Off
ScheduledTakeOffTimeLocal	Time	Scheduled time of Take-Off in Local Time
ScheduledTripTime	Time	Scheduled Trip time (From Take-Off to Landing)
SELCAL	Text	Aircraft Selective Call (SELCAL) code [0] SEL/ABCD [1] ABCD
SET	Time	Scheduled Enroute Time (EET – taxi-out/taxi-in)
SETDelay	Text	Difference between EET and SET [0] EARLY or LATE [1] E or L [2] - or +
SETDiff	Time	Difference between EET and SET
SID	Text	Planned Standard Instrument Departure “DCT” if empty
STA	Time	Scheduled Time of Arrival (Block-On)
STALocal	Time	Scheduled Time of Arrival (Block-On) in Local Time
STAR	Text	Planned Standard Terminal Arrival “DCT” if empty
STD	Time	Scheduled Time of Departure (Block-Off)
STDLocal	Time	Scheduled Time of Departure (Block-Off) in Local Time
StructMLDW	Weight	Aircraft’s Maximum Structural Landing Weight
StructMTOW	Weight	Aircraft’s Maximum Structural Take-Off Weight
TailNr	Text	Aircraft tail number
To	Airport	Destination airport
TOAltn	Airport	Take-Off Alternate
TOAltnDist	Text	Great Circle Distance from Origin to Take-Off Alternate
TOAltnElev	Text	
TOCISADev	Text	[0] ISA Deviation at Top of Climb (TOC) in °C +03 / -03 [1] ISA Deviation at Top of Climb (TOC) in °C P03 / M03
TOCTemp	Text	Outside Air Temperature at first Top Of Climb (TOC) [0] +05 [1] P05
TOCTropopause	Altitude	Tropopause Height at Top of Climb
TOCWind	Text	Wind at first Top Of Climb (TOC)
ToElev	Text	Destination airport elevation
ToLatitude	Coords	Destination Latitude
ToLongitude	Coords	Destination Longitude
TotalPax	Text	Total Passengers (excluding infants)
TotalPaxWithInfants	Text	Total Passengers and Infants (e.g. 123+5)
TOW	Weight	Take-Off Weight (ZFW + Block fuel - Taxi-out fuel)
TransCoeff	Text	Take-Off Weight / Landing Weight X.XX
TripFuelCorrection2000Below	Weight	Trip fuel for flying 2000ft/600m below planned flight levels
TripFuelCorrectionHigher	Weight	
TripFuelCorrectionHigherWeight	Weight	
TripFuelCorrectionLower	Weight	



TripFuelCorrectionLowerWeight	Weight	
TripTime2000Below	Weight	Trip time for flying 2000ft/600m below planned flight levels
TripTimeDiff2000Below	Time	Trip time difference for flying 2000ft/600m below planned flight levels
Underload	Weight	
UnderloadLimit	Text	
VerticalProfile	Text	Vertical flight profile
VerticalProfileBelow	Text	Vertical flight profile for 2.000ft/600m below planned profile
WindComp	Text	[0] HDxxx (Headwind) or TLxxx (Tailwind) [1] Hxxx(Headwind) or Txxx (Tailwind) [2] Mxxx(Headwind) or Pxxx (Tailwind)
WindData	Special	Generates a hard-coded wind data block. Parameter defined format (presently formats 0-2 is available)
WindDataBlock	Section	Only shown if 'Wind Information' is checked on Results page
WindPrognosis	Date	Date of wind data observation
WindPrognosisTime	Date	Time of wind data observation
ZFW	Weight	Zero Fuel Weight (DOW+Payload)

Fuel/Time fields

AdditionalFuel	Weight	
AdditionalFuelCaption	Text	
AdditionalFuelSection	Section	Only shown if Additional/Contingency fuel is planned
AlternateFuel	Weight	Fuel required from destination to alternate
AlternateFuelCaption	Text	
AlternateFuelSection	Section	Only shown if Alternate fuel is required
AlternateTime	Time	
ArrivalFuel	Weight	Landing fuel less taxi-in fuel
ArrivalTime	Time	Endurance remaining at gate arrival (LandingTime minus TaxiInTime)
AvblDelayFuel	Weight	Landing Fuel – MinReserveFuel
AvblDelayTime	Time	Landing Time - MinReserveTime
BallastFuel	Weight	
BallastFuelCaption	Text	
BallastFuelSection	Section	Only shown if Ballast fuel is planned
ContingencyFuel	Weight	
ContingencyFuelCaption	Text	
ContingencyFuelSection	Section	Only shown if Contingency fuel is required
ContingencyTime	Time	
EmergFuel10	Weight	Fuel required for 10 min hold
EmergFuel15	Weight	Fuel required for 15 min hold
EmergFuel20	Weight	Fuel required for 20 min hold
EmergFuel25	Weight	Fuel required for 25 min hold
EmergFuel30	Weight	Fuel required for 30 min hold
EmergFuel35	Weight	Fuel required for 35 min hold
EmergFuel40	Weight	Fuel required for 40 min hold



EROPSFuel	Weight	
EROPSFuelCaption	Text	
EROPSFuelSection	Section	Only shown if EROPS fuel is required
ExtraFuel	Weight	
ExtraFuelCaption	Text	
ExtraFuelSection	Section	Only shown if Extra fuel is planned
ExtraTime	Time	
FinalReserveFuel	Weight	
FinalReserveFuelCaption	Text	
FinalReserveFuelSection	Section	Only shown if Final Reserve fuel is required
FinalReserveTime	Time	
HoldFuel	Weight	
HoldFuelCaption	Text	
HoldFuelSection	Section	Only shown if Holding fuel is planned
HoldTime	Time	
LandingFuel	Weight	Fuel remaining at Touch-down
LandingTime	Time	Endurance remaining at touch-down
MELCDFuel	Weight	
MELCDFuelCaption	Text	
MELCDFuelSection	Section	Only shown if MEL/CDL fuel is planned
MinContingencyFuel	Weight	
MinContingencyTime	Time	
MinReleaseFuel	Weight	
MinReleaseFuelCaption	Text	
MinReleaseTime	Time	
MinReserveFuel	Weight	Alternate fuel + Final Reserve fuel + Ballast fuel
MinReserveTime	Time	AlternateTime + FinalReserveTime
MinTakeOffFuel	Weight	
MinTakeOffFuelCaption	Text	
MinTakeOffTime	Time	
NavLog	Section	Encapsulates Navigation Log (See Navigation Log paragraph)
NavLogAbbreviated	Section	Same as NavLog, but omits *CLB/*DES and *ETOPS waypoints
NavLogShort	Section	Same as NavLog, but omits certain waypoints to shorten NavLog output
NoRedispatchSection	Section	Only shown if no Redispatch is planned
PFPXVersion	Text	PFPX version number (e.g. 1.10)
ReleaseFuel	Weight	Planned fuel amount before engine start
ReleaseFuelCaption	Text	
ReleaseTime	Time	
TakeOffFuel	Weight	Fuel at Take-Off (Block fuel less taxi-out fuel)
TakeOffFuelCaption	Text	
TakeOffTime	Time	Planned time of Take-Off
TankerFuel	Weight	



TankerFuelCaption	Text	
TankerFuelSection	Section	Only shown if Tanker fuel is planned
TaxiFuelCaption	Text	
TaxiInFuel	Weight	
TaxiInTime	Time	
TaxiOutFuel	Weight	
TaxiOutTime	Time	
TripFuel	Weight	Fuel burn from take-off to landing
TripFuelCaption	Text	
TripTime	Time	Time required from Take-off to Landing

Alternate Airport fields

AdditionalTime	Time	Additional fuel converted Flight time calculated at TOD
AdequateAirports	Text	Prints a list of adequate airports used for flight planning [0] ICAO codes [1] IATA codes Use the length parameter to add line breaks. Shows NONE if no adequate airports listed
Alternate1	Section	Only Shown if First Alternate has been listed and calculations are valid
Alternate2	Section	Only Shown if Second Alternate has been listed and calculations are valid
Alternate3	Section	Only Shown if Third Alternate has been listed and calculations are valid
Alternate4	Section	Only Shown if Fourth Alternate has been listed and calculations are valid
Alternates	Section	Only shown if Alternates Required is '1' or '2'
AlternatesAvailable	Section	Only shown if at least one destination alternate is listed on the OFP, even if none are required
AltnX	Airport	Replace 'X' with 1, 2, 3, or 4 Replace 'X' with 1, 2, 3, or 4
AltnXAirDist	Text	Replace 'X' with 1, 2, 3, or 4
AltnXATCRoute	Text	Routing in ICAO format with ATC speed/level changes. Length parameter defines line break position.
AltnXATCRoute1	Text	Routing in ICAO format - Route string only (including departure and destination). Length parameter defines line break position.
AltnXATCRouteFAA	Text	Routing in FAA format without departure and destination. Length parameter defines line break position.
AltnXATCRouteFAA1	Text	Routing in FAA format including departure and destination. Length parameter defines line break position.
AltnXDist	Text	Replace 'X' with 1, 2, 3, or 4 Replace 'X' with 1, 2, 3, or 4
AltnXFinResFuel	Weight	Final Reserve Fuel Replace 'X' with 1, 2, 3, or 4
AltnXFL	Altitude	Replace 'X' with 1, 2, 3, or 4 Replace 'X' with 1, 2, 3, or 4
AltnXFuel	Weight	Alternate TripFuel+HoldFuel Replace 'X' with 1, 2, 3, or 4
AltnXGridMORA	Altitude	Highest Grid MORA (Minimum Off-Route Altitude) from



		Destination to Alternate. "UNK" of not known. Replace 'X' with 1, 2, 3, or 4
AltnXHoldFuel	Weight	Holding fuel at Alternate Replace 'X' with 1, 2, 3, or 4
AltnXHoldTime	Time	Holding time at Alternate
AltnXNavLog	Section	Replace 'X' with 1, 2, 3, or 4
AltnXNavLogAbbreviated	Section	Replace 'X' with 1, 2, 3, or 4
AltnXNavLogShort	Section	Replace 'X' with 1, 2, 3, or 4
AltnXRoute	Text	Replace 'X' with 1, 2, 3, or 4
AltnXRwy	Text	Replace 'X' with 1, 2, 3, or 4
AltnXTime	Time	Alternate TripTime+HoldTime
AltnXTrack	Text	Replace 'X' with 1, 2, 3, or 4
AltnXTripFuel	Weight	Replace 'X' with 1, 2, 3, or 4
AltnXTripFuelDiff	Weight	Replace 'X' with 1, 2, 3, or 4
AltnXTripTime	Time	Replace 'X' with 1, 2, 3, or 4
AltnXTripTimeDiff	Time	Replace 'X' with 1, 2, 3, or 4
AltnXWindComp	Text	Replace 'X' with 1, 2, 3, or 4 [0] HDxxx (Headwind) or TLxxx (Tailwind) [1] Hxxx(Headwind) or Txxx (Tailwind) [2] Mxxx(Headwind) or Pxxx (Tailwind)
EnrouteAlternate	Section	Only Shown if an Enroute Alternate has been listed (EU-OPS)
FuelAlternate	Airport	Destination Alternate required for fuel planning (The alternate requiring most alternate fuel)
IsCostIndex	Section	Shown, if initial cruise speed is a Cost Index
IsFixedSpeed	Section	Shown, if initial cruise speed is neither a Mach Number nor a Cost Index
IsMach	Section	Shown, if initial cruise speed is a Mach Number
MDAltn	Airport	Most distant alternate listed on OFP (in terms of fuel)
MDAltnDist	Text	
MDAltnFL	Altitude	
MDAltnRoute	Text	
MDAltnRwy	Text	
MDAltnTrack	Text	
MDAltnTripFuel	Weight	
MDAltnTripFuelDiff	Weight	
MDAltnTripTime	Time	
MDAltnWindComp	Text	[0] HDxxx (Headwind) or TLxxx (Tailwind) [1] Hxxx(Headwind) or Txxx (Tailwind) [2] Mxxx(Headwind) or Pxxx (Tailwind)
NoAlternate	Section	Only shown if no destination alternate option has been used
NoRedispatchAlternate	Section	Only Shown if NO Redispatch Alternate has been listed and/or calculations are not valid
RedispatchAlternate	Section	Only Shown if a Redispatch Alternate has been listed and calculations are valid
Required_Alternate1	Section	Only shown if Alternates Required is '1' or '2'
Required_Alternate2	Section	Only shown if Alternates Required is '2'
TakeOffAlternate	Section	Only Shown if a Take-Off Alternate has been listed



Navigation Log (NavLog) fields

NavLog fields are used to create a navigation log with all waypoints. The <&NavLogShort_Begin> and <&NavLogShort_End> section can be used to create a shorter NavLog by omitting some waypoints.

The following fields must be enclosed by <&NavLog_Begin> and <&NavLog_End>:

Altitude	Altitude	Waypoint Altitude/FL. Climb is shown as *CLB and descend as *DES
Altitude1	Altitude	Waypoint Altitude/FL. Climb and descents show planned altitude
Awy	Text	Airway
BurnToGo	Weight	Fuel burn from fix to destination
Class2Entry	Section	Shown if waypoint is Class II entry waypoint. Note: If section exists, rest of NavLog will be removed for this waypoint
Class2Exit	Section	Shown if waypoint is Class II exit waypoint. Note: If section exists, rest of NavLog will be removed for this waypoint
DistAcc	Text	Accumulated Distance (Distance from Origin to fix)
DistRem	Text	Remaining Distance to Destination
ETO	Time	Estimated time over fix
ETOPSEntry	Section	Shown if waypoint is ETOPS entry
ETOPSExit	Section	Shown if waypoint is ETOPS exit
FIR	Text	FIR or UIR the fix is located in [0] FIR Identifier [1] FIR Identifier preceded by “-” [2] FIR Name
FIRChange	Text	New FIR or UIR when changed [0] FIR Identifier [1] FIR Identifier preceded by “-” [2] FIR Name
FIRChange	Section	Shown if FIR/UIR has changed
FirstClass2Entry	Section	Shown if waypoint is first Class II entry waypoint. Note: If section exists, rest of NavLog will be removed for this waypoint
FirstETOPSEntry	Section	Shown if waypoint is first ETOPS entry point
FixFreq	Text	Frequency
FixIdent	Text	Identifier of fix waypoint [0] fix identifier [1] cuts latitude/longitude waypoints to 5 characters by removing N/E/S/W characters (e.g. 20N150W would be shown as 20150)
FixName	Text	Name of fix. Empty if same as FixIdent
FuelFlow	Weight	Fuel flow over waypoint (Blank during Climb/Descent)
FuelRemaining	Weight	
FuelUsed	Weight	
GridMORA	Altitude	Highest Grid MORA (Minimum Off-Route Altitude) from previous



		fix to actual fix. "UNK" of not known.
GS	Text	Ground speed
IAS	Text	Indicated Airspeed in knots (cruise portion only)
ISADev	Text	[0] ISA Deviation at waypoint in °C +03 / -03 [1] ISA Deviation at waypoint in °C P03 / M03 Blank during Climb/Descent
LastClass2Exit	Section	Shown if waypoint is last Class II exit waypoint. Note: If section exists, rest of NavLog will be removed for this waypoint
LastETOPSExit	Section	Shown if waypoint is last ETOPS exit point
Latitude	Coords	
LegDist	Text	
LegTime	Time	
LegWindComp	Text	Wind component [0] HDxxx (Headwind) or TLxxx (Tailwind) [1] Hxxx(Headwind) or Txxx (Tailwind) [2] Mxxx(Headwind) or Pxxx (Tailwind)
Longitude	Coords	
Mach	Text	Empty, if Cruise is planned with IAS/Cost Index/LRC [0] 078 [1] 775 [2] .78 [3] .785
MagVar	Text	Magnetic variation at waypoint [0] E02 [1] +2 [2] +02 [3] +02.4 [4] E1 [5] E2.4 [6] E02.4
MH	Text	Magnetic Heading
MinFuelRemaining	Weight	Minimum Fuel Remaining at waypoint
MT	Text	Magnetic Track
NextFixIdent	Text	
NextFixName	Text	
NextLegDist	Text	Leg Distance from Fix to next Fix
NextLegTime	Time	Time from Fix to next Fix
NextSubSeqFixIdent	Text	
NextSubSeqFixName	Text	
OAT	Text	Outer Air Temperature in °C [0] +02 / -14 [1] P02 / M14
OceanicEntry	Section	Shown if waypoint is first Oceanic entry point
OceanicExit	Section	Shown if waypoint is last Oceanic entry point
OceanicFix	Section	Shown if waypoint is an 'Oceanic' fix



RedispatchFix	Section	Shown if waypoint is the redispatch fix
SegmentBurn	Weight	Fuel burn from last fix to present fix
ShearFactor	Text	Wind Shear Value [0] 2 [1] 02 (with leading zeros) [2] 1.9 (with decimal)
Speed	Text	Cruise speed schedule
SpeedChange	Section	Shown if speed is changed at the fix
TAS	Text	True airspeed
TAT	Text	Total Air Temperature in °C [0] +02 / -14 [1] P02 / M14
TH	Text	True heading
TimeElapsed	Time	Elapsed Time (Time from Origin to fix)
TimeRem	Time	Remaining Time to Destination
TOCSection	Section	Shown if waypoint is Top of Climb
TODSection	Section	Shown if waypoint is Top of Descent
Tropopause	Altitude	Tropopause level
TT	Text	True Track
WCA	Text	Wind correction angle [0] +03 [1] R03
Wind	Text	
WPNr	Text	Sequence number of the waypoint, beginning with 1 [0] 01, 02, 03, 04 (with leading zeros) [1] 1, 2, 3, 4 (without leading zeros) [2] 1A, 2A, ... 9A, 1B, 2B (special format)

Redispatch fields

RedispatchAdditionalFuel	Weight	
RedispatchAdditionalFuelCaption	Text	
RedispatchAdditionalFuelSection	Section	Only shown if Redispatch Additional fuel is required
RedispatchAlternate	Text	
RedispatchAlternateFuel	Weight	Fuel required from redispatch destination to redispatch alternate
RedispatchAlternateFuelCaption	Text	
RedispatchAlternateTime	Time	
RedispatchAltn	Airport	
RedispatchAltnDist	Text	
RedispatchAltnElev	Text	
RedispatchAltnFL	Altitude	
RedispatchAltnRoute	Text	
RedispatchAltnRwy	Text	
RedispatchAltnTripFuel	Weight	
RedispatchAltnTripTime	Time	
RedispatchAltnWindComp	Text	[0] HDxxx (Headwind) or TLxxx (Tailwind)



		[1] Hxxx(Headwind) or Txxx (Tailwind) [2] Mxxx(Headwind) or Pxxx (Tailwind)
RedispatchAptExtraFuel	Weight	Extra fuel at Initial Destination (Redispatch Airport)
RedispatchAptExtraTime	Weight	Extra time at Initial Destination (Redispatch Airport)
RedispatchATCRoute	Text	
RedispatchBurnFromDepToFix	Weight	
RedispatchBurnFromDepToRedispatchApt	Weight	
RedispatchBurnFromFixToDest	Weight	
RedispatchBurnFromFixToRedispatchApt	Weight	
RedispatchContingencyFuel	Weight	
RedispatchContingencyFuelCaption	Text	
RedispatchContingencyFuelSection	Section	Only shown if Redispatch Contingency fuel is required
RedispatchContingencyTime	Time	
RedispatchDestElev	Text	
RedispatchDestination	Text	
RedispatchDestRwy	Text	
RedispatchDistFromDepToFix	Distance	
RedispatchDistFromDepToInitDest	Distance	
RedispatchDistFromFixToDest	Distance	
RedispatchDistFromFixToInitDest	Distance	
RedispatchExtraFuel	Weight	
RedispatchExtraTime	Weight	
RedispatchFinalReserveFuel	Weight	
RedispatchFinalReserveFuelCaption	Text	
RedispatchFinalReserveFuelSection	Section	Only shown if Redispatch Final Reserve fuel is required
RedispatchFinalReserveTime	Time	
RedispatchFix	Text	
RedispatchFixFuelRemaining	Weight	
RedispatchFuelRequiredFromDepToRedispatchApt	Fuel	
RedispatchFuelRequiredFromFixToDestination	Weight	
RedispatchFuelRequiredFromFixToRedispatchApt	Weight	
RedispatchLandingFuel	Weight	Landing fuel at Initial Destination (Redispatch Airport)
RedispatchMinReleaseFuel	Weight	
RedispatchMinReleaseTime	Time	
RedispatchMinTakeOffFuel	Weight	
RedispatchMinTakeOffTime	Time	
RedispatchPlanTakeOffFuel	Weight	
RedispatchPlanTakeOffTime	Time	
RedispatchReleaseFuel	Weight	
RedispatchReleaseFuelCaption	Text	
RedispatchReleaseTime	Time	
RedispatchSection	Section	Only shown if Redispatch is planned
RedispatchTimeFromDepToFix	Time	
RedispatchTimeFromDepToRedispatchApt	Time	
RedispatchTimeFromFixToDest	Time	



RedispatchTimeFromFixToRedispatchApt	Time	
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Extended Range (EROPS) fields

CRP	Section	Show if EROPS calculations are based on Critical Time Point (ETP). Requires single ETP airport (Unbalanced)
EROPSSection	Section	Only shown if flight is planned using EROPS
ETP	Section	Show if EROPS calculations are based on Equal Time Point (ETP). Requires an ETP pair (Balanced)
ETPApt	Airport	Airport, the 'Entry' or 'Exit' point is based on
ETPApt1	Airport	
ETPApt1Dist	Distance	
ETPApt1GS	Text	Average Ground speed to ETP1 Airport
ETPApt1Latitude	Coords	
ETPApt1Longitude	Coords	
ETPApt1TT	Text	
ETPApt1WC	Text	
ETPApt2	Airport	
ETPApt2Dist	Distance	
ETPApt2GS	Text	Average Ground speed to ETP2 Airport
ETPApt2Latitude	Coords	
ETPApt2Longitude	Coords	
ETPApt2TT	Text	
ETPApt2WC	Text	
ETPBurnTo	Weight	Fuel burn from Take-Off to ETP
ETPCaption	Text	
ETPCruise	Text	
ETPData	Section	
ETPDiscard	Text	
ETPDistAfterPrevWaypoint	Distance	
ETPDistBeforeNextWaypoint	Distance	
ETPDiversionTime	Time	
ETPEET	Time	
ETPEntryExit	Section	
ETPEntryOrExit	Text	[0] 'ENTRY' for the EROPS entry point and 'EXIT' for the EROPS exit point [1] 'EEP' for the EROPS entry point and 'EXP' for the EROPS exit point
ETPEntryOrExitEET	Time	
ETPEntryOrExitLatitude	Coords	
ETPEntryOrExitLongitude	Coords	
ETPExtraFuel	Weight	
ETPFlightLevel	Text	
ETPFuelRemaining	Weight	
ETPFuelRequired	Weight	



ETPIcing	Section	Only Shown EROPS icing has been set to 'YES'
ETPIncludesMissedApproach	Section	Only Shown if EROPS calculations include fuel for missed approach
ETPLandFuel	Weight	Fuel remaining at ETP diversion airport
ETPLandFuelWithMissedApp	Weight	Fuel remaining at ETP diversion airport after Missed Approach
ETPLatitude	Coords	
ETPLongitude	Coords	
ETPNextWaypoint	Text	
ETPNoDiversionTimeLimit	Section	Only Shown if EROPS calculations are based on no Threshold Time Limit
ETPNon_Icing	Section	Only Shown EROPS icing has been set to 'NO'
ETPNr	Text	
ETPOverWeight	Section	Shown if landing weight at EROPS Alternate is above MLDW
ETPPrevWaypoint	Text	
ETPTIMEAfterPrevWaypoint	Time	
ETPWithDiversionTimeLimit	Section	Only Shown if EROPS calculations are limited to a specified Threshold Time Limit
MaxDiversionDist	Distance	
MaxDiversionTime	Text	Max Diversion Time in minutes
NearestAdequateApt	Airport	Nearest Adequate Airport at ETOPS entry/exit point
TTLDivertBurn	Weight	Total fuel burn from take-off to EROPS diversion airport
WindowOfSuitability	Section	
WindowOfSuitabilityEarliest	Time	
WindowOfSuitabilityLatest	Time	

Take-Off & Landing Performance fields

The Take-off and Landing data fields are only available if a user has calculated Take-Off and/or Landing data. Make sure to enclose these fields between <&Performance_Begin> and <&Performance_End>.

LDG_AirCond	Text	
LDG_Antilce	Text	
LDG_Data	Section	
LDG_EOSID	Text	
LDG_Flaps	Text	
LDG_MLDW_LimitCode	Text	
LDG_PLDW_LimitCode	Text	
LDG_Pressure	Text	
LDG_Runway	Text	
LDG_RunwayCond	Text	
LDG_RunwayLength	Length	Length of Take-Off Runway (same formatting as Weight fields)
LDG_Temperature	Text	
LDG_VAPP	Text	
LDG_VREF	Text	
LDG_Weight	Weight	
LDG_Wind	Text	



No_LDG_Data	Section	
No_TO_Data	Section	
PerformanceSection	Section	
TO_LimitCode	Text	
TO_LimitCode	Text	
TO_ThrustSetting	Text	
TO_AirCond	Text	
TO_Antilce	Text	
TO_Data	Section	
TO_EOSID	Text	
TO_Flaps	Text	
TO_Pressure	Text	
TO_Runway	Text	
TO_RunwayCond	Text	
TO_RunwayLength	Length	Length of Take-Off Runway (same formatting as Weight fields)
TO_Temperature	Text	
TO_Thrust	Text	
TO_ThrustSetting	Text	
TO_ThrustUnits	Text	
TO_V1	Text	
TO_V1Range	Text	
TO_V2	Text	
TO_VR	Text	
TO_Weight	Weight	
TO_Wind	Text	

