



Flight Schedule Information - Specification, Version 1.3, 18.February 2008

Lufthansa Cargo publishes flight schedule information in an ASCII file format (csv) on its Internet Homepage www.lufthansa-cargo.com, updated on a daily base. The csv-file provides the flight schedule information in a structured format using the semicolon as delimiter among two adjacent elements. During the initial implementation phase Lufthansa/Lufthansa Cargo direct routings will be included, only (no transfer connections, no OAL partner flights are listed). The file will be updated daily. This file can be used to integrate all or parts of the schedule information in the freight forwarder systems for subsequent offer display at the forwarders workstation. The integration and the development of an offer display from the csv-file will be the entire responsibility of the freight forwarder IT department or his Software provider, respectively. The name of the csv-file is "LHcargo_FlightSchedule.csv". The creation date of the schedule is given in the first line of the file. A new schedule file always replaces the older version completely.

This specification describes the structure of the csv-file and the format of the flight schedule information elements.

For any information concerning the file please contact Claudia Maurer at Lufthansa Cargo email: claudia.maurer@dlh.de

Example of the Data Record:

Ref.	Record Content
Line 1	SCD;01MAR05
Line 2	RowNr;RD;RA;CD;CA;AL;FNR;SNR;DEP;ARR;STD;DDC;STA;ADC;Mo;Tu;We;Th;Fr;Sa;So;ACtype;ACtypefullname;AG;AGf ullname;Start_Op;End_Op
Line 3	1;NA;DE;US;DE;LH;LH445;0;ATL;FRA;1610;0;0630;1;1;2;3;4;5;6;7;34Z;Airbus A330-400;W;PAXwidebody;25NOV04; 31MAR05
Line 4	END#

Ref. No.	Usage	Data Element	Character Format	Note
1	M	Schedule File Header		
1.1	M	Schedule File Header Identifier	aaa	SCD
1.2	M	Separator	Semicolon	
1.3	M	Date of File Creation		
1.3.1	M	Day of the month	nn	e.g.: 01
1.3.2	M	Month	aaa	e.g.: MAR (IATA data element 201)
1.3.3	M	Year	nn	e.g.: 05

Ref. No.	Usage	Data Element	Character Format	Note
2	M	Flight Schedule Information Header		
2.1	M	Header Row Number	RowNr;	
2.2	M	Header Region Code of Departure Airport	RD;	
2.3	M	Header Region Code of Arrival Airport	RA;	
2.4	M	Header Country Code of DepartureAirport	CD;	
2.5	M	Header Country Code of Arrival Airport	CA;	
2.6	M	Header Airline Code	AL;	
2.7	M	Header Flight Number	FNR;	
2.8	M	Header Segment Number	SNR;	
2.9	M	Header Airport Code of Departure	DEP;	
2.10	M	Header Airport Code of Arrival	ARR;	
2.11	M	Header Schedule Time of Departure	STD;	
2.12	M	Header Date Variation of Departure	DDC;	
2.13	M	Header Schedule Time of Arrival	STA;	
2.14	M	Header Date Variation of Arrival	ADC;	
2.15	M	Header Operating Days	Mo;Tu;We;Th;Fr;Sa; So;	
2.16	M	Header Aircraft Type Code	ACtype;	
2.17		Header Aircraft Type Full Name	ACtypefullname;	
2.18	M	Header Aircraft Group Code	AG;	
2.19	M	Header Aircraft Group Full Name	AGfullname;	
2.20	M	Header Start Date of Flight Operations	Start_Op;	
2.21	M	Header End Date of Flight Operations	End_Op	

Ref. No.	Usage	Data Element	Character Format	Note
3	M	Flight Schedule Information Details		
3.1	M	Row Number	n(...4)	e.g.: 5123 (one to four numerics)
3.2	M	Separator	Semicolon	
3.3	M	Region Code of Departure	aa	e.g.: NA (refer to note 1)
3.4	M	Separator	Semicolon	
3.5	M	Region Code of Arrival	aa	e.g.: GE (refer to note 1)
3.6	M	Separator	Semicolon	
3.7	M	Country Code of Departure	aa	e.g.: US (IATA codes)
3.8	M	Separator	Semicolon	
3.9	M	Country Code of Arrival	aa	e.g.: DE (IATA codes)
3.10	M	Separator	Semicolon	
3.11	M	Airline Code	mm	e.g.: LH
3.12	M	Separator	Semicolon	
3.13	M	Flight Identification		
3.13.1	M	Airline Code	mm	e.g.: LH (IATA codes)
3.13.2	M	Flight Number	nnn(n)	e.g.: 445
3.13.3	O	Flight Number Suffix	a	e.g.: A
3.14	M	Separator	Semicolon	
3.15	M	Aiport Code of Departure	aaa	e.g.: ATL (IATA codes)
3.16	M	Separator	Semicolon	
3.17	M	Airport Code of Arrival	aaa	e.g.: FRA (IATA codes)
3.18	M	Separator	Semicolon	
3.19	M	Schedule Time of Flight Departure (local)		
3.19.1	M	Hours	nn	e.g.: 16
3.19.2	M	Minutes	nn	e.g.: 10
3.20	M	Separator	Semicolon	
3.21	M	Date Variation at Departure Airport	n	e.g.: 0
3.22	M	Separator	Semicolon	
3.23	M	Schedule Time of Flight Arrival (local)		
3.23.1	M	Hours	nn	e.g.: 06

3.23.2	M	Minutes	nn	e.g.: 30
Ref. No.	Usage	Data Element	Character Format	Note
3.24	M	Separator	Semicolon	
3.25	M	Date Variation at Arrival Airport	n	e.g.: 1
3.26	M	Separator	Semicolon	
3.27	M	Operating Days		
3.27.1	C	Day of the Week	n	e.g.: 1 (refer to note 2)
3.27.2	M	Separator	Semicolon	
Elements 3.27.1 to 3.27.2 occur 7 times.				
Element 3.27.1 can be present at a minimum of one time up to 7 times.				
3.28	M	Aircraft Type Code	mmm	e.g.: 34Z
3.29	M	Separator	Semicolon	
3.30	M	Aircraft Type Name	t[...40]	e.g.: Airbus A330-400
3.31	M	Separator	Semicolon	
3.32	M	Aircraft Group Code	a	e.g.: W (refer to note 3)
3.33	M	Separator	Semicolon	
3.34	M	Aircraft Group Name	t[...20]	e.g.: PAXwidebody
3.35	M	Separator	Semicolon	
3.36	M	Start Date of Operation		
3.36.1	M	Day of the month	nn	e.g.: 25
3.36.2	M	Month	aaa	e.g.: NOV (IATA codes)
3.36.3	M	Year	nn	e.g.: 04
3.37	M	Separator	Semicolon	
3.38	M	End Date of Operation		
3.38.1	M	Day of the month	nn	e.g.: 31
3.38.2	M	Month	aaa	e.g.: MAR (IATA codes)
3.38.3	M	Year	nn	e.g.: 05
Total line 3 can occur n times.				
3.	M	Flight Schedule Trailer		
3.1	M	End of File Identifier	aaa	END
3.2	M	End of File Marker	Hash-Character	#

Character Format

The symbols and their meaning are detailed below:

- a represents a single alpha character (capital letters A through Z);
- n represents a single numeric character (numerals 0 through 9);
- m represents only mixed alpha (capital letters A through Z) and figures (numerals 0 through 9);
- t represents a character in free form text (capital letters, numeric, hyphen, full stop or space);
- x represents a character in extended free text (alpha, numeric, hyphen, slant, comma, full stop or space):

Data in this file will neither include leading nor trailing space characters.

Notes

Note 1: Coding of the Departure Region (ref.3.1) and Arrival Region (Ref.No. 3.3)

- AF Africa
- AS Asia
- EU Europe
- NA North America
- SA South America, Central America and Caribbean

Note 2: Coding of Day of the Week (Ref.No.3.27.1)

- 1 Monday
- 2 Tuesday
- 3 Wednesday
- 4 Thursday
- 5 Friday
- 6 Saturday
- 7 Sunday

Note 3: Coding of the Aircraft Group (Ref.No. 3.32)

- F Freighter
- O Others
- W PAX ULD
- T Trucks