

# **L-DCS - Local Departure Control System**

**Edge Airport France**



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# L-DCS - Local Departure Control System



IATA / CUPPS compliant

## Features

- graphical management of cabin plans;
- integration of IATA messages - PNL, ADL...;
- supports APIS and EBorders ;
- passenger tracking (PAXTracer);
- baggage reconciliation;
- flight documents;
- generating and sending operational messages PFS, LDM, FTL, ETL ...;
- Weight & Balance;
- calculate CG expressed in %MAC;
- generate load sheets.

## Description

Airport Manager LDCS is a passenger check-in system for low-cost airlines. Chaque banque d'enregistrement peut gérer simultanément plusieurs vols. Each check-in workstation desk can simultaneously register several flights.

The programme is compatible with the use of multiple peripherals.

1. MS : Magnetic Swipe Reader ;
2. OC : LePassport Readers (Optical Character Reader) ;
3. BC : Bar Code Reader;
4. BP : Boarding Pass Printer (BPP) ;
5. BT : Baggage Tag Printer (ATB);
6. BG : Boarding Gate Reader (BGR) ;
7. PR : Matrix printers for operational documents.

## Weight & balance

The L-DCS includes a «Weight & Balance» module, allowing the calculation of load and trim results. It calculates the load and trim and produces the plane loading expressed in %MAC. The results are sent in Excel spreadsheets, which produces a load sheet.



Use of 'Weight & Balance' module is subject to the certification requirements between Edge-airport and airlines.

## LDCS - Main Screen

Flight list per day

IATA Messages for each flight

The screenshot shows the LDCS software interface. At the top, it displays 'Connected on localhost Database egc' and 'Version 01.00.21201'. The main menu includes 'Airlines', 'Aircrafts', and 'Seat map'. A 'Flight management' section contains 'Flight Schedule' and 'Daily flight table' buttons. On the left, there are three large buttons: 'PNL' (Passenger List F5), 'CHK' (Check-in F6), and 'BRD' (Boarding F7). The 'Flight list' table is displayed with the following data:

h	mn	Vol	No	IATA	Destination	Immat	Type	Seats	Seating	CK Close	Gate	Boarding
6	30	T7	5011	ORY	PARIS-ORLY	FGLNK	B190	19		04:00		03:30
9	55	FR	9919	LPL	LIVERPOOL	EIEBC	B738	189		09:15	A	09:15
13	25	BE	3646	SOU	SOUTHAMPTON	GEOCG	DH8D	78	DH8D 400-Y	12:55	A	12:55
14	10	FR	2353	NRN	WEEZE DUSSELDORF	EIDHP	B738	189		13:30	A	13:30
14	55	HV	5084	RTM	ROTTERDAM	PHXRB	B737	149	BEA737-700	14:15	A	14:15
15	35	FR	6027	BRS	BRISTOL	EIEBA	B738	189		14:55	A	14:55
16	15	FR	1683	EMA	EAST MIDLANDS	EIEMB	B738	189		15:35	A	15:35
17	55	T7	5015	ORY	PARIS-ORLY	FGLNK	B190	19		17:35	B	17:35
18	10	FR	8593	STN	STANSTED	EIDPC	B738	189		17:30	A	17:30

The 'IATAtext' window is open, showing a list of messages for flight BE3646/16JUL EGC PART2. The messages include:

```

:54 D PNL BE BE3646/16JUL EGC PART2
:54 D PNL BE PNL
:35 A MVT BE BE3646/16JUL EGC PART2
:30 D ADL BE 1HOOD/PHILIPMR-C2 .R/CKIN HK1 BEE
M1BAG20K .R/TKNE HK1
:22 D ADL BE .RN/2672181460957/2-1HOOD/PHILIPMR
.R/RQST HK1 18B .R/FARE U
1HUGHAN/JACQUELINEMRS-D2 .R/RQST
HK1 7A .R/FARE U .R/CKIN
.RN/HK1 BEE M1BAG20K .R/TKNE HK1
.RN/2672181751239/2-
1HUGHAN/JACQUELINEMRS
1HUGHAN/MARCMR-D2 .R/CKIN HK1 BEE
M1BAG20K .R/TKNE HK1
  
```

## Cabin Plans

The graphic tool facilitates the creation of a cabin plan:

1. management of 2 flight decks (principal and superior (B747 or A380));
2. multi-classing of passengers;
3. positioning of emergency exits;
4. blocking of seats;
5. zone management



3. seat number;
4. count of men, women, children (-12 years) and babies;
5. specific information (prepaid baggage, wheelchairs ...);
6. connecting flights (allows bag tag printing to the final destination).

#	Seq	Booking Ref	Nom passenger	Seat	Dest	Bag(s)	Kg	Male	Female	Child	Baby	Tracer	Infos pax	AL2	Vol No	To 1	Cie 1	Vol 1	To 2	Cie 2	Vol 2	To 3	Cie 3	Vol 3	To 4	Cie 4	Vol 4	Vol 5	
56		2672181545644	STAPLETON/CLAIREMISS		SOU				1			0		BE	3646														
		2672183332435	STEWART/COLINMR		SOU				1			0	BAGS1	BE	3646														
		2672181112909	WOOD/ALISONMRS	3C	SOU					1		0	BAGS1	BE	3646														
		2672181112908	WOOD/D/AVIDDR	3D	SOU							0	BAGS1	BE	3646														
		2672182753110	GOWER/JANEMRS		SOU					1		0		BE	3646														
		2672183313254	SEARLE/JANEMRS		SOU					1		0		BE	3646	GCI	BE	0633											
		2672183313253	SEARLE/STEPHENMR		SOU					1		0		BE	3646	GCI	BE	0633											
		2672183307176	WENTWORTH/COLINMR		SOU					1		0		BE	3646														
		2672180931341	COULING/JEFFREYMR	5B	SOU					1		0	BAGS1	BE	3646														
		2672180926795	FRANKLIN/CHRISTOPHERMR		SOU					1		0	BAGS1	BE	3646														
		2672183024322	RAWLINS/GILLIANMRS	8D	SOU					1		0		BE	3646														
		2672183038237	SOPRELL/BARRIEMR		SOU					1		0		BE	3646														
		2672183001629	SPENCER/IANMR		SOU					1		0	BAGS1	BE	3646														
		26721830025158	STEELE/ANDREWMR		SOU					1		0		BE	3646														
		2672183008512	WEIR/HUGHES/DICKONPROF	16A	SOU							0	BAGS1	BE	3646	MAN	BE	0669											
		2672182702773	COCHRANE/FREYAMISS	11D	SOU					1		0	BAGS1	BE	3646	EDI	BE	0769											
		2672182702771	COCHRANE/JOHANLANMR	11B	SOU					1		0	BAGS1	BE	3646	EDI	BE	0769											
		2672182702772	COCHRANE/NIAMHMISS	11C	SOU					1		0	BAGS1	BE	3646	EDI	BE	0769											
		2672182702770	COCHRANE/SALLYMRS	11A	SOU					1		0	BAGS1	BE	3646	EDI	BE	0769											
		2672181252466	COOK/RACHELMRS	5A	SOU					1		0	BAGS1	BE	3646														
		2672181460956	HOOD/SABELMRS	19A	SOU					1		0	BAGS1	BE	3646														
		2672181460957	HOOD/PHILPMR	19B	SOU					1		0	BAGS1	BE	3646														
		2672181751239	HUGHAN/JACQUELINEMRS	7A	SOU					1		0	BAGS1	BE	3646														
		2672181751238	HUGHAN/MARCMR	7B	SOU					1		0	BAGS1	BE	3646														
		267218033424	BALLSAT/RUTHMISS	6C	SOU					1		0	BAGS1	BE	3646														
		PNL1397720	COOPER/JAMESMR		SOU					1		0	BAGS1	BE	3646														
		PNL1397721	CROUCH/MARKMR		SOU					1		0	BAGS1	BE	3646														
		2672183314156	SEARLE/EDWARDMR	14A	SOU					1		0	BAGS9	BE	3646														
		2672183329657	SMALL/JAYSTONMR		SOU					1		1	BAGS9 INF	BE	3646														
		2672183329658	SMALL/REBECCAMRS		SOU					1		0	BAGS9	BE	3646														
		2672183300050	BEATTIE/CARDLMRS	12C	SOU					1		0		BE	3646														
		2672180939227	BEALCHAMR/DONATHANMR	15A	SOU					1		0	BAGS1	BE	3646														

## Check-in

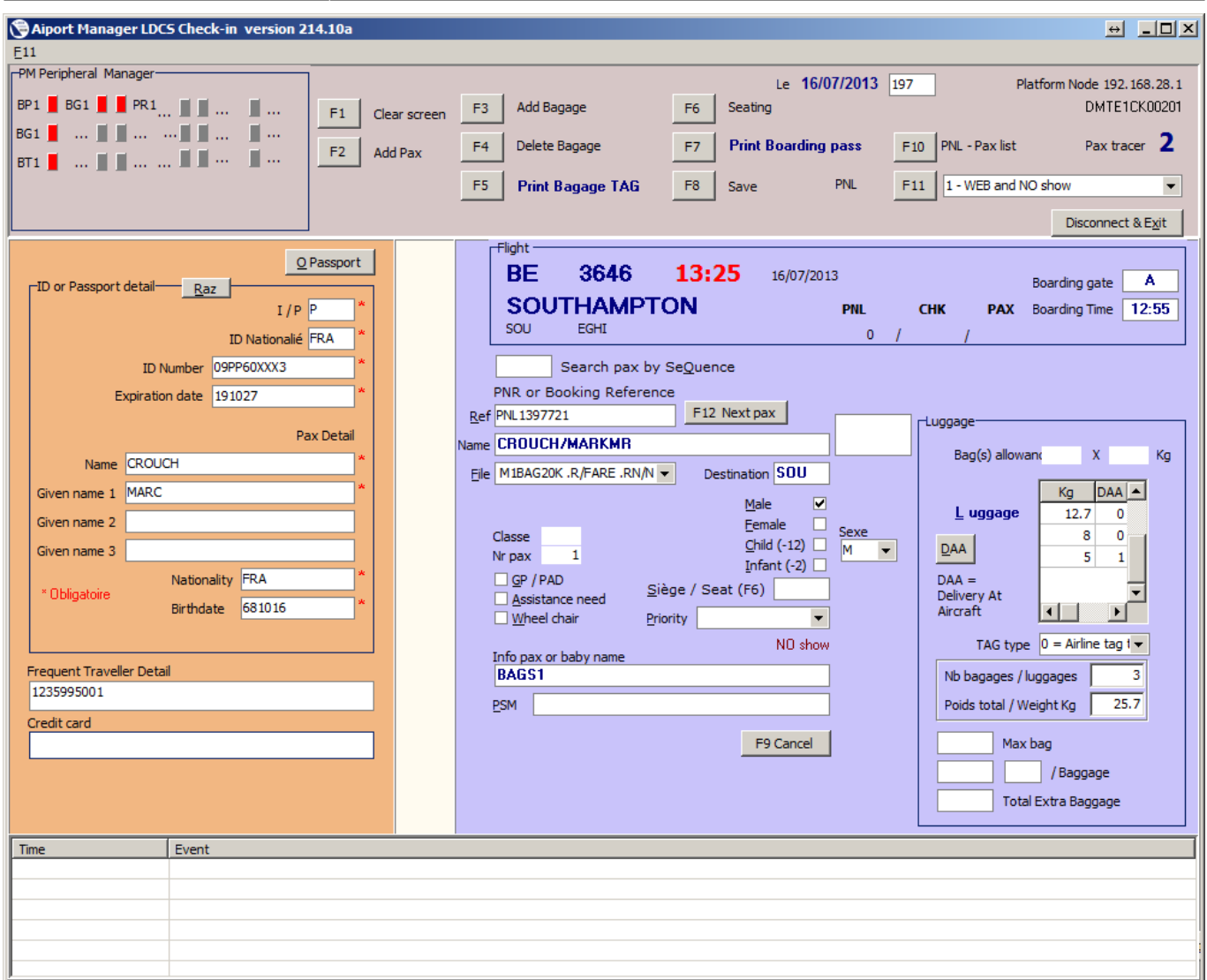
Passenger check-in, boarding passes and bag tags printing is facilitated by ergonomics of the software.

Passenger check-in can be done in several ways:

1. by passing the passenger's passport in the reader;
2. by partially composing first few letters of name;
3. by displaying passenger list (PNL).

## Automatic flight selection

By reading a passenger's passport, the program will automatically find the flight on which the passenger is travelling.



**Flight Information:**  
 Flight: BE 3646 13:25 16/07/2013  
 Destination: SOUTHAMPTON  
 Boarding gate: A  
 Boarding Time: 12:55

**Passenger Details:**  
 Name: CROUCH/MARKMR  
 Nationality: FRA  
 Birthdate: 681016  
 Sex: M

Kg	DAA
12.7	0
8	0
5	1

Time	Event

## Boarding

L-DCS provides the ability to connect up to 3 BGRs thus allowing fast boarding. The 3rd BGR can be a wireless barcode reader or an automatic gate.

The software can also be used without BGR. Just enter the sequence number of each boarding pass to board a passenger.

Airport Manager LDCS Boarding version 213.D1a  
 Le 16/07/2013 197 F3 Sequence F5  Voir tous les pax F7 PIL Print Manifest Platform Node 192.168.28.1  
 DMTE1CK00201 Pax tracer 4  
 F8 Flight Closure F10 Pax list Exit Alt F4  
 Flight detail: BE 3646 13:25  
 SOU SOUTHAMPTON 16/07/2013 378127

-PM Peripheral Manager  
 BP1 BG1 PR1  
 BG1  
 BT1

Pax selection by SEAT Print Boarding pass

Aperçu  
 NO show  Web check-in  Check-in  Security passed  On board

Drag a column header here to group by that column

Seq	Nom passager	Nat	Class	Seat	Dest	Bag(s)	Kg	Pax tracer
	HUGHAN/MARCMR			7B	SOU			0
	BALLISAT/RUTHMISS			6C	SOU			0
	COOPER/JAMESMR				SOU			0
	CROUCH/MARKMR				SOU			0
	SEARLE/EDWARDMR			14A	SOU			0
	SMALL/JAYSTONMR				SOU			0
	SMALL/REBECCAMRS				SOU			0
	BEATTIE/CAROLMRS			12C	SOU			0
	BEAUCHAMP/JONATHANDR			6A	SOU			0
	BURKE/ANNEMRS				SOU			0
	BURKE/JULIANMR				SOU			0
	CAHILL/NILIAMHMISS			18C	SOU			0
	COYNE/LORNAMS				SOU			0
	HARFIELD/BARRYMR			.RN	SOU			0
	HARFIELD/MICHAELMR			21A	SOU			0
	HEALD/ANNADR			6B	SOU			0
	SNELL/ADRIANMR				SOU			0
	STEPHEN/CHRISTINEMRS				SOU			0
	STEPHEN/IANMR				SOU			0
	WICKHAM/PETERMR				SOU			0
	WYCKMANS/DAVIDMR				SOU			0
	WYCKMANS/SUSANMRS				SOU			0
	LORD/HUGOMR				SOU			0
1	BLOOD/FIONAMRS		Y	12B	SOU			2
2	COCHRANE/FREYAMISS		Y	11D	SOU			4

56 0 0

d:\cupot\bin\airport

Boarding Debug  
 Sequence (F3) PNL CHK PAX  
 Pax Name 56 / 2 / 1 Flight  
 Booking Reference  
**COCHRANE/FREYAMISS**  
**OK**  
**2**  
 Siège / Seat Classe

Boarding Gate Reader 1 Boarding Gate Reader 2 Boarding Gate Reader 3

Time	Event	Status

## Loadsheet

For companies certified to the "Weight & Balance" system, it is possible to generate loadsheet in Excel files.

## LOAD AND TRIM SHEET F-LDCS

<b>BASIC WEIGHT</b>		13 411		FLT Nb: _____			
Corrections	crew	528		DATE: 24-dec			
Corrected basic weight		13 939		A/C: ATR72-500			
<b>TAKEOFF FUEL +</b>		2 230		CPT: _____			
Operational weight		16 169		CRW: _____			
				DESTINATION: ORY			
DEST	PASSENGERS	TOTAL WEIGHT	CARGO			MAXIMUM WEIGHT	
			LH FWD	RH FWD	AFT	Zero fuel	
HAH	AD	CH	TR	0	0	0	20 800
			B	0			2 230
			C				23 030
			M				22 500
			T	0	0	0	22 600
			TR				16 169
			B				16 169
			C				16 169
			M				16 169
			T				16 169

<b>LAST MINUTE CHANGE LMC</b>		<b>BASIC INDEX CORRECTION</b>	
DEST	SPICIFICATION	CL	WEIGHT
		0	
TOTAL LMC +/-		0	

<b>3rd crew mbr index</b>		0.0	
<b>WEIGHT VARIATION</b>		<b>ZONES</b>	
+	10 KG	-0.29	+0.46
-	10 KG	+0.29	-0.46
<b>INDEX CORRECTION</b>			

<b>ZONES</b>	<b>Nb</b>	<b>WEIGHT KG</b>
CABIN A	18	1335
CABIN B	21	1389
CABIN C	12	913
FWD CARGO		220
AFT CARGO		330
<b>FUEL</b>		<b>2 230</b>

Cargo weight (KG) A	550	Corrected weight
Passengers weight (KG) B	3 617	
LOADING A + B	4 167	
CORRECTED BASIC WEIGHT	13 939	
ZERO FUEL WEIGHT	18 106	
MAX	20 800	
TAKEOFF FUEL	2 230	
TAKEOFF WEIGHT	20 336	
MAX	22 800	
TRIP FUEL	250	
LANDING WEIGHT	20 086	
MAX	22 350	

PREPARED BY	APPROVED BY	ZFW MAC	22.7%
		14% BETWEEN	37%
		TOW MAC	24.3%

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# Edge Airport France

## Airport Manager Solutions

**Phone: +33 553 801 366**

**Service commercial : [contact@edge-airport.com](mailto:contact@edge-airport.com)**

**Support technique : [support@edge-airport.com](mailto:support@edge-airport.com)**

**Edge Airport France SAS au capital de 150 000 €**

**RCS Bergerac 529 125 346 Les Lèches TVA : FR53529125346 / EORI : FR52912534600039**

**Tel : +33(0)553 801 366 [contact@edge-airport.com](mailto:contact@edge-airport.com) [www.edge-airport.com](http://www.edge-airport.com)**