

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

**Edge Airport France**



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# Table of Contents

**EN\_EAF\_PUB\_LDCS\_201603-002\_PlaqTech** .....

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

    Description .....

**Weight & balance** .....

        LDCS - Main Screen .....

**Cabin Plans** .....

**PNL -Integrating passenger lists** .....

        Check-in .....

        Automatic flight selection .....

        Boarding .....

        Loadsheet .....

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## L-DCS - Local Departure Control System



IATA / CUPPS compliant

Features:

1. graphical management of cabin plans;
2. integration of IATA messages - PNL, ADL...;
3. supports APIS and EBorders ;
4. passenger tracking (PAXTracer);
5. baggage reconciliation;
6. flight documents;
7. generating and sending operational messages PFS, LDM, FTL, ETL ...;
8. Weight & Balance;
9. calculate CG expressed in %MAC;
10. 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

Connected on localhost Database egc Version 01.00.21201

Cupp-T L-DCS Date 16/07/2013

Airlines  
Aircrafts  
Seat map

PNL Passenger List F5  
CHK Check-in F6  
BRD Boarding F7

Flight management  
Flight Schedule  
Daily flight table  
Exit

Flight Number: BE 3646 << F2 F3 >>

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	GECOG	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

IATAtext

	AD	SMI	VOL	Subject
:31	D	ADL	BE	BE3646/16JUL EGC PART1
:54	D	PNL	BE	BE3646/16JUL EGC PART2
:54	D	PNL	BE	PNL
:35	A	MVT	BE	BE3646/16JUL EGC PART2 -SOU009U
:30	D	ADL	BE	1HOOD/PHILIPMR-C2 R/CKIN HK1 BEE
:22	D	ADL	BE	M1BAG20K R/TKNE HK1 .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/MARCHR-D2 R/CKIN HK1 BEE M1BAG20K R/TKNE HK1

WorkDIR d:\cuppt\bin\airport applications\LDCS\ Server\_DATA d:\cupptserver\cupps\applications\LDCS\data\

## 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

**Objects**

Exit Exit

**Tool box**

Number of seats per row:

FIRST row number:   No row 13

LAST row number:

First Business Premium Economy

Create seats

formSEAT

File F8 Save Exit (Alt F4)

Seat map Code:  Total seats: 156

Nr deck: 1

EASYJET A319 156Y

Seat	Nom passenger	Clas
26F	PALMER/JOHNMR	
26E	PALMER/SANDRAMRS	
15A	TURTON/THEAMISS	
15B	TURTON/HUGHMR	
2D	RODGERS/MARGARETMRS	
15D	SKINNER/PHILIPPAMISS	
68		

Passenger Name:

Seat:

Done

Available Locked NOT available

BAY	Du No	Au	Max	T.O. B.
A	1	9	54	0
B	10	18	54	0
C	19	26	48	0

Main Deck Upper Deck

## PNL -Integrating passenger lists

LDCS integrates the PNL and ADL messages and thus generates the passengers list. With this tool, it just takes couple minutes to prepare flights on LDCS.

The advantage of this functionality is the automatic recuperation of the following data:

1. sequence number for the passengers checked-in online (web check-in);
2. name of each passenger and reservation reference or number on E-ticket;

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 passager	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
1		2672181545644	STAPLETON/CLAIREMISS		SOU					1			0		BE 3646													
2		2672183332435	STEWART/COLINMR		SOU				1				0 BAGS1		BE 3646													
3		2672181112909	WOOD/ALISONMRS	3C	SOU					1			0 BAGS1		BE 3646													
4		2672181112908	WOOD/D/AVIDDR	3D	SOU								0 BAGS1		BE 3646													
5		2672182753110	GOWER/JANEMRS		SOU					1			0		BE 3646													
6		2672183313254	SEARLE/JANEMRS		SOU					1			0		BE 3646	GCI	BE	0633										
7		2672183313253	SEARLE/STEPHENMR		SOU					1			0		BE 3646	GCI	BE	0633										
8		2672183307176	WENTWORTH/COLINMR		SOU					1			0		BE 3646													
9		2672180931341	COULING/JEFFREYMR	5B	SOU					1			0 BAGS1		BE 3646													
10		2672180926795	FRANKLIN/CHRISTOPHERMR		SOU					1			0 BAGS1		BE 3646													
11		2672183024322	RAWLINS/GILLIANMRS	8D	SOU					1			0		BE 3646													
12		2672183038237	SOPRELL/BARRIEMR		SOU					1			0		BE 3646													
13		2672183001629	SPENCER/IANMR		SOU					1			0 BAGS1		BE 3646													
14		26721830025158	STEELE/ANDREYMR		SOU					1			0		BE 3646													
15		2672183008512	WEIR/HUGHES/DICKONPROF	16A	SOU								0 BAGS1		BE 3646	MAN	BE	0669										
16		2672182702773	COCHRANE/FREYAMISS	11D	SOU					1			0 BAGS1		BE 3646	EDI	BE	0769										
17		2672182702771	COCHRANE/JOHANLANMR	11B	SOU					1			0 BAGS1		BE 3646	EDI	BE	0769										
18		2672182702772	COCHRANE/NIAMHMIS	11C	SOU					1			0 BAGS1		BE 3646	EDI	BE	0769										
19		2672182702770	COCHRANE/SALLYMRS	11A	SOU					1			0 BAGS1		BE 3646	EDI	BE	0769										
20		2672181252466	COOK/RACHELMRS	5A	SOU					1			0 BAGS1		BE 3646													
21		2672181460956	HOOD/SABELMRS	19A	SOU					1			0 BAGS1		BE 3646													
22		2672181460957	HOOD/PHILIPMR	19B	SOU					1			0 BAGS1		BE 3646													
23		2672181751239	HUGHAN/JACQUELINEMRS	7A	SOU					1			0 BAGS1		BE 3646													
24		2672181751238	HUGHAN/MARCMR	7B	SOU					1			0 BAGS1		BE 3646													
25		267218033424	BALLSAT/RUTHMISS	6C	SOU					1			0 BAGS1		BE 3646													
26		PNL1397720	COOPER/JAMESMR		SOU					1			0 BAGS1		BE 3646													
27		PNL1397721	CROUCH/MARKMR		SOU					1			0 BAGS1		BE 3646													
28		2672183314156	SEARLE/EDWARDMR	14A	SOU					1			0 BAGS9		BE 3646													
29		2672183329657	SMALL/JAYSTONMR		SOU					1			0 BAGS9 INF		BE 3646													
30		2672183329658	SMALL/REBECCAMRS		SOU					1			0 BAGS9		BE 3646													
31		2672183300050	BEATTIE/CARDLMRS	12C	SOU					1			0		BE 3646													
32		2672180939227	BEALCHAMR/DONATHANMR	15A	SOU					1			0 BAGS1		BE 3646													
56						0	0	26	25	0	1																	

## Check-in

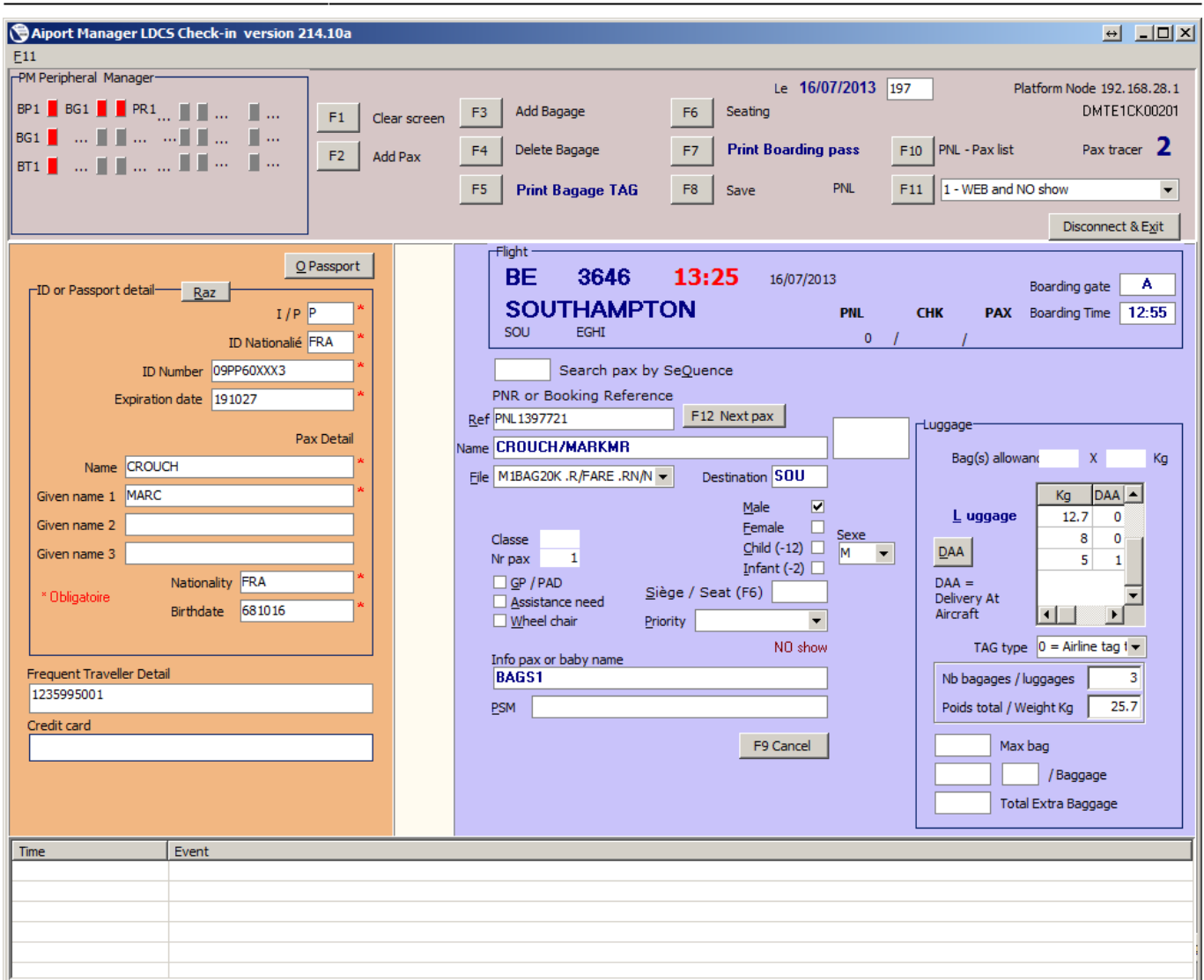
Passenger check-in, boarding passes and bag tags printing is facilitated by ergonomics of the software.

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  
 SOUTHAMPTON  
 SOU ECHI  
 PNL 0 / CHK / PAX / Boarding Time 12:55  
 Boarding gate A

**Passenger Information:**  
 Name: CROUCH/MARKMR  
 File: M1BAG20K .R/FARE .RN/N  
 Destination: SOU  
 Classe: [ ]  
 Nr pax: 1  
 Sexe: M  
 Male:  Female:   
 Child (-12):  Infant (-2):   
 Assistance need:  Wheel chair:   
 Siège / Seat (F6): [ ]  
 Priority: [ ]

**Passport/ID Detail:**  
 ID Nationalité: FRA  
 ID Number: 09PP60XXX3  
 Expiration date: 191027  
 Nationality: FRA  
 Birthdate: 681016  
 Name: CROUCH  
 Given name 1: MARC

**Luggage:**  
 Bag(s) allowed: X Kg  

Kg	DAA
12.7	0
8	0
5	1

 DAA = Delivery At Aircraft  
 TAG type: 0 = Airline tag i  
 Nb bagages / luggages: 3  
 Poids total / Weight Kg: 25.7

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  
 BP1 BG1 PR1 ...  
 BG1 ...  
 BT1 ...  
 Pax selection by SEAT Print Boarding pass  
 F8 Flight Closure F10 Pax list Exit Alt F4  
 Flight detail: BE 3646 13:25  
 SOU SOUTHAMPTON 16/07/2013 378127  
 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

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

d:\cupot\bin\airport

## 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	
TAKEOFF FUEL + 2 230		CPT: _____	
Operational weight 16 169		CRW: _____	

				DESTINATION: ORY		
		<b>MAXIMUM WEIGHT</b>		Zero fuel	Takeoff	Landing
				20 800		22 350
		<b>TAKEOFF FUEL</b> 0		2 230	Tripp fuel →	250
		<b>LIMITATION</b> (Lowest of the 3)		23 030	22 500	22 600
		<b>OPERATIONAL WEIGHT</b>		16 169	16 169	16 169
		<b>LOADING</b>		8 861	8 331	6 431

<b>BASIC INDEX</b>		-12.55	
--------------------	--	--------	--

<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>			

CORRECTED INDEX

-12.00

<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>		2 230

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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