

# 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.

- MS : Magnetic Swipe Reader ;
- OC : LePassport Readers (Optical Character Reader) ;
- BC : Bar Code Reader;
- BP : Boarding Pass Printer (BPP) ;
- BT : Baggage Tag Printer (ATB);
- BG : Boarding Gate Reader (BGR) ;
- 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

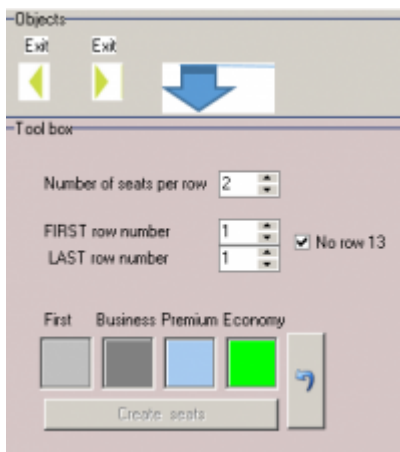
IATA Messages for each flight

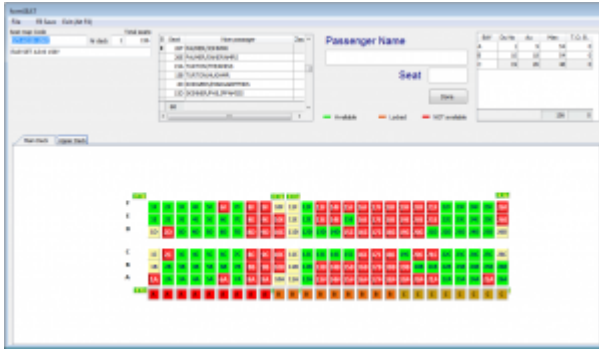


## Cabin Plans

The graphic tool facilitates the creation of a cabin plan:

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





## 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).

PNL - Passenger Name List Version 213.05a

Le 16/07/2013 Flight: BE 3646 13 25 378127  
 SOU SOUTHAMPTON

F10 All pax F4 NO show F5 Web F6 Checked F7 Security F9 Boarded  
 NO show Web check-in Check-in Security passed On board 0 /

#	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
2672181545644			STAPLETON/CLAIREMISS		SOU					1			0		BE	3646												
267218332435			STEWART/COLINMR		SOU				1				0	BAGS1	BE	3646												
2672181112909			WOOD/ALISONMRS	3C	SOU					1			0	BAGS1	BE	3646												
2672181112908			WOOD/DAVIDDR	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									
2672183301716			WENTWORTH/COLINMR		SOU					1			0		BE	3646												
2672180931341			ODULING/EFFREYMR	5B	SOU					1			0	BAGS1	BE	3646												
2672180926795			FRANKLIN/CHRISTOPHERMR		SOU					1			0	BAGS1	BE	3646												
2672183024222			RAWLINS/GILLIANMRS	8D	SOU					1			0		BE	3646												
26721830028237			SOPRELL/GARRIEMR		SOU				1				0		BE	3646												
2672183001629			SPENCER/IANMR		SOU					1			0	BAGS1	BE	3646												
2672183026158			STEEL/ANDREWMR		SOU					1			0		BE	3646												
2672183008512			WEIR/HUGHES/DICKONPROF	16A	SOU								0	BAGS1	BE	3646	MAN	BE	0869									
2672182702773			COCHRANE/FREYAMISS	11D	SOU					1			0	BAGS1	BE	3646	EDI	BE	0769									
2672182702771			COCHRANE/IDHNALANMR	11B	SOU					1			0	BAGS1	BE	3646	EDI	BE	0769									
2672182702772			COCHRANE/NIAMHMIS	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/ISABELMRS	18A	SOU					1			0	BAGS1	BE	3646												
2672181460957			HOOD/PHILIPMR	18B	SOU					1			0	BAGS1	BE	3646												
2672181751239			HUGHAN/JACQUELINEMRS	7A	SOU					1			0	BAGS1	BE	3646												
2672181751238			HUGHAN/MARCHMR	7B	SOU					1			0	BAGS1	BE	3646												
267218033424			BALLISAT/RUTHMISS	6C	SOU					1			0	BAGS1	BE	3646												
PNL1397720			CODPER/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	0	BAGS9 INF	BE	3646												
2672183329658			SMALL/REBECCAMRS		SOU					1			0	BAGS9	BE	3646												
2672183300050			BEATTIE/CAROLMRS	12C	SOU					1			0		BE	3646												
56			BEATTIE/CAROLMRS	12C	SOU					1			0	BAGS1	BE	3646												

56 Hommes 26 Enregistré(s) 25 Femmes 0 Embarqué(s) 0 Enfants - 12 ans 1 bébé(s) 0 Passagers avec assistance 0 Bagages 0.0 Kg

Connected on localhost Database egc Site EGC

## Check-in

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

Passenger search 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.

The screenshot displays the 'Airport Manager LDCS Check-in version 214.10a' interface. The main window is divided into several sections:

- Top Panel:** Includes a 'PM Peripheral Manager' with status indicators for BP1, BG1, PR1, BT1, and BG1. It also features a grid of function buttons (F1-F8) such as 'Clear screen', 'Add Baggage', 'Seating', 'Add Pax', 'Delete Baggage', 'Print Boarding pass', 'Print Baggage TAG', and 'Save'. A date field shows 'Le 16/07/2013' and a platform node '197'. A 'Pax tracer' field shows the number '2'.
- Passport Section (Left):** Contains fields for 'ID or Passport detail' (I/P, Nationalité: FRA, ID Number: 09PP60XXX3, Expiration date: 191027) and 'Pax Detail' (Name: CROUCH, Given name 1: MARC, Nationality: FRA, Birthdate: 681016). It also includes 'Frequent Traveller Detail' (1235995001) and a 'Credit card' field.
- Flight Section (Center):** Displays flight information for 'BE 3646' on '16/07/2013' to 'SOUTHAMPTON'. It includes fields for 'PNL', 'CHK', 'PAX', and 'Boarding Time' (12:55). A search bar is present for 'Search pax by Sequence'.
- Passenger Details (Center):** Shows 'Name: CROUCH/MARKMR', 'File: M1BAG20K .R/FARE .RN/N', and 'Destination: SOU'. It includes checkboxes for 'Male', 'Female', 'Child (-12)', and 'Infant (-2)', along with 'Classe', 'Nr pax: 1', and 'Sexe: M'. There are also fields for 'Siège / Seat (F6)', 'Priority', and 'Info pax or baby name: BAGS1'.
- Luggage Section (Right):** Features a table for luggage details:
 

Kg	DAA
12.7	0
8	0
5	1

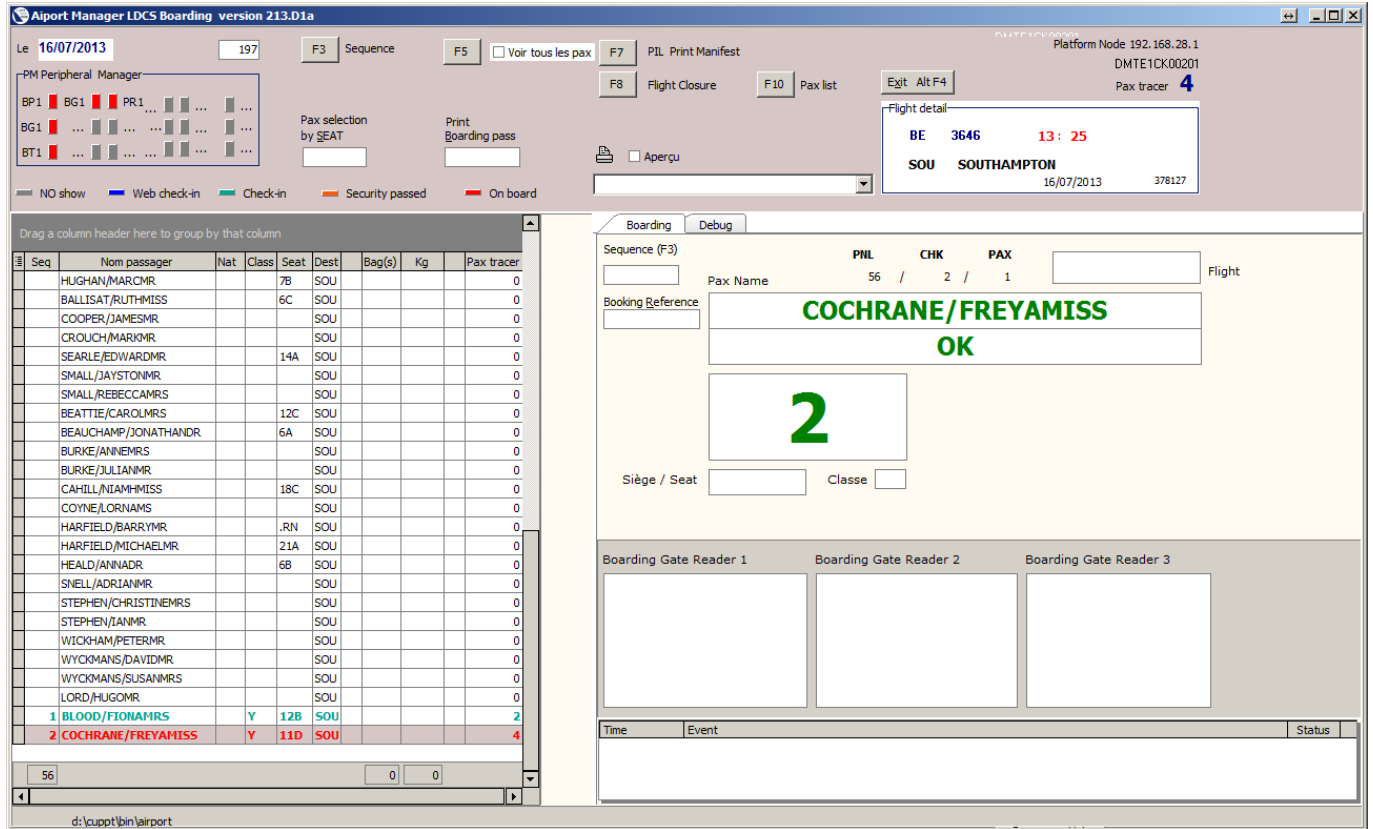
 Below the table, it shows 'DAA = Delivery At Aircraft', 'TAG type: 0 = Airline tag 1', 'Nb baggages / luggages: 3', and 'Poids total / Weight Kg: 25.7'.
- Bottom Panel:** A table with columns 'Time' and 'Event'.

## 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.



The screenshot shows the 'Airport Manager LDCS Boarding version 213.D1a' interface. At the top, there are menu options like 'F3 Sequence', 'F5', 'F7 PIL Print Manifest', 'F8 Flight Closure', and 'F10 Pax list'. A flight detail window shows: BE 3646, 13:25, SOU SOUTHAMPTON, 16/07/2013, 378127. The main area is split into a 'Boarding' tab and a 'Debug' tab. The 'Boarding' tab displays a table of passengers and a confirmation screen for 'COCHRANE/FREYAMISS' with a large green '2' indicating the boarding gate/sequence. The 'Debug' tab shows three 'Boarding Gate Reader' windows.

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

## 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>		<b>13 411</b>	FLT Nb: _____						
Corrections	crew	528	DATE: <b>24-dec</b>						
Corrected basic weight		13 939	A/C: <b>ATR72-500</b>						
<b>TAKEOFF FUEL +</b>		<b>2 230</b>	CPT: _____						
Operational weight		16 169	CRW: _____						
			DESTINATION: <b>ORY</b>						
DEST	PASSENGERS AD   CH	TOTAL WEIGHT	CARGO			MAXIMUM WEIGHT	Zero fuel	Takeoff	Landing
			LH FWD	RH FWD	AFT	TAKEOFF FUEL		Trip fuel	
HAH	0   0	0	0	0	0	20 800		22 350	
		0				2 230		250	
						23 030	22 500	22 600	
						16 169	16 169	16 169	
						6 861	6 331	6 431	
						LOADING			
						BASIC INDEX <span style="border: 1px solid black; padding: 2px;">-12.55</span>			

<b>LAST MINUTE CHANGE LMC</b>		<b>BASIC INDEX CORRECTION</b>	
DEST	WEIGHT	3rd crew mbr index	0.0
TOTAL LMC +/-		INDEX CORRECTION	
0		CORRECTED INDEX <span style="border: 1px solid black; padding: 2px;">-12.00</span>	

<b>ZONES</b>		Nb	WEIGHT KG
CABIN A	18	1335	
CABIN B	21	1380	
CABIN C	12	913	
FWD CARGO		220	
AFT CARGO		330	
FUEL		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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