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Setup and Operation

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FlightConnect[™]Office







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Operation: EM200-17

TABLE OF CONTENTS

INTRODUCTION

Software License Agreement	3
FlightConnect Office Software Overview	4

INSTALLATION & SETUP

Software Installation	5
FlightConnect Database Po	pulation6

SETUP & OPERATION

FlightConnect Read	7
FlightConnect Edit	8
Database Management	8
File Tabs	10
Airport Code	11
Aircraft Type	
Customer File	12
Fueler File	12
Fuel Location	13
Fuel Type	13
Load Location	13
System Definitions	14
Truck	16
Transaction Type	16
FlightConnect Dispatch	17
Setup	17
Operation	17
Email & SMS Notification	

APPENDIX

Data Files Overview	20
ACode.txt	20
AType.txt	20
Customer.txt	20
Fueler.txt	21
FuelLoc.txt	21
FuelType.txt	21
LoadLoc.txt	21
SysDefs.txt	22
Truck.txt	23
TType.txt	23
DMS CompTran.txt (Completed Transaction File).	24
LCR 600 CompTran.txt (Completed Transaction F	File)27
Dispatch.501	30
CompTran.xml (Completed Transaction File).	31
Verify SMTP Server Communication	33
Establishing Settings and Directories	35

WARNING

- Before using this product, read and understand the instructions.
- Save these instructions for future reference.
- All work must be performed by qualified personnel trained in the proper application, installation, and maintenance of equipment and/or systems in accordance with all applicable codes and ordinances.
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INTRODUCTION

FlightConnect Office Software Overview

FlightConnect Office is a software package for office computers used in FlightConnect Fueling Systems. Software in the package is used in conjunction with FlightConnect fueling software (installed on DMS and LCR 600 units in the FlightConnect network) and DBManager software (installed on the office computer). FlightConnect DMS and FlightConnect LCR 600 are automated data capture and data management systems for into-plane fueling operations. FlightConnect collects the details of each fueling and wirelessly transmits the fueling data to the office. DBManager includes LCP Setup, a program for configuring communication settings, and DBManager, a program that identifies LCR 600 and DMS units, prepares file paths, schedules data transmissions and transmits data between the office and the LCR 600s.

FlightConnect Office includes Flight Connect Read (ACRead.exe), a file conversion program; FlightConnect Edit (FlightConnect Edit. exe), a database management interface; and FlightConnect Dispatch (ACDispatch.exe), an interface that configures and wirelessly dispatches scheduled fueling assignments to LCR 600s on the tarmac. If you are using FlightConnect Office on multiple computers, one copy is required for each computer.

LC recommends that if the software is running on one computer and not running on a server that multiple computers have access to, only one licence of software should be used as multiple PC with multiple databases could cause issues.

FlightConnect Office software provides a user-friendly interface where users:

- Manage the FlightConnect database on the computer and the DMS and LCR 600 units in the FlightConnect network
- · Convert fuel delivery files for transfer to third-party software
- Validate database changes made in the field
- Dispatch fueling assignments to LCR 600 units in the FlightConnect network

FLIGHTCONNECT READ (ACRead.exe)

FlightConnect Read converts transaction files (Comp501.trn), sent from DMS and LCR 600 units in the network, into files (.txt or .xml) for use in third-party accounting or spreadsheet software. It is a service application designed, in conjunction with DBManager, to run in the background of the computer. FlightConnect Read and DBManager must both be open on the computer to receive and convert transaction files.

FLIGHTCONNECT EDIT (ACEdit.exe)

FlightConnect Edit is a user interface where users can manage FlightConnect database files, change settings to FlightConnect fueling software (DMS and LCR 600 units in the network), and convert FlightConnect files into text files (and text files into FlightConnect files).

FLIGHTCONNECT DISPATCH (ACDispatch.exe)

FlightConnect Dispatch is a user interface where fueling assignments (dispatches) can be configured and dispatched to LCR 600 units in the FlightConnect network. Dispatch can also be configured to send email and SMS alerts to notify fuelers and other personnel that a fueling dispatch has been sent to the LCR 600.

FlightConnect Edit

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FlightConnect Dispatch



5

Software Installation

To install FlightConnect Office software, insert the FlightConnect Office CD-ROM into your office PC (or click on the the setup.exe file supplied by Liquid Controls). Installation should begin automatically. Follow the FlightConnect Office installation wizard directions until installation is complete. If the installation does not begin automatically, use your browser to locate the setup.exe application file on the CD-ROM and click on it to begin the installation.

If automatic launch does not begin, perform the following:

- 1. From the Taskbar, click Windows® Start menu then click Run.
- 2. From the Run window, click Browse.
- 3. From the Browse window, select the CD-ROM drive, select the setup.exe file then click Open.
- 4. From the Run window, click OK.

FlightConnect Office installation wizard.

- 1. From the Welcome window, click Next.
- 2. From the **Software License Agreement** window, if you agree to the license terms, click **I accept the terms in the license agreement**.
- 3. From the Choose Destination Location window, perform one of the following options:

3a. Click **Browse** to select a custom destination location.

3b. Click Next to select the default destination location C:\DMS.

- 4. From the Ready to Install the Program window, click Install to begin installation.
- 5. From the InstallShield Wizard Completed window, click Finish.
- 6. After completing the software installation, navigate to C:\DMS. Click on vcredist_x86.exe and run the program.
- 7. In C:\DMS, click on dotNetFX40_Client_setup.exe and run the program.

FlightConnect Office files loaded into the destination folder:

- ACRead.exe
- ACEdit.exe
- ACDispatch.exe
- dotNetFX40_Client_setup.exe (Microsoft[®].NET Framework)
- vcredist_x86.exe (Microsoft® Visual C++ Redistributable Package)
- SG501CD.isu (FlightConnect Uninstall Script)
- HSSLF32.dll
- LCLCP32.dll
- LCLCPF32.dll
- LCLib32.dll

Shortcuts loaded onto desktop:



FlightConnect Read



FlightConnect Edit



FlightConnect Dispatch

All subsequent examples and instructions assume C:\DMS as the location of FlightConnect software and databases.



INSTALLATION & SETUP

FlightConnect Database Population

After the FlightConnect Office software is installed, the next step is to populate the FlightConnect database with all the pertinent data from your company's operations. There are two methods for populating the FlightConnect database. Data can be keyed in manually, in the file tabs on FlightConnect Office's user interface, FlightConnect Edit. Or text files can be generated from your existing third-party accounting or spreadsheet software and imported into the FlightConnect database. Typically, a combination of both methods is used to populate the database.

FuelLoc.501 (Fuel Location)

LoadLoc.501 (Load Location)

FuelType.501

The FlightConnect database consists of 10 files:

- ACode.501 (Airport Code)
- AType.501 (Aircraft Type)
- Customer.501
- Fueler.slf

MANUAL DATA ENTRY

To populate the FlightConnect database manually, data must be entered into the 10 FlightConnect Edit file tabs. Instructions are in the FlightConnect Edit section of this manual.

To populate the FlightConnect database manually:

- Open FlightConnect Edit and click open the ten file tabs. This will create a 501 or .sli file for each file tab in the CIDVS folder. 1.
- 2. Type the data into each of the file tabs until the FlightConnect database is created. See Flie Tabssection of this manual
- 3. Create a new folder in C:\DMS for the FlightConnect master database.
- Move the .501 or .slf files into the master database folder. 4

TEXT FILE GENERATION

To populate the FlightConnect database using text files, a text file, in a comma delimited format, must be generated and then converted into .501 and .slf files.

Third-party software and company spreadsheets often contain much of the vital operational data needed to populate the FlightConnect database. This data must be configured to match the .txt file examples of each FlightConnect file in the appendix of this manual. After the .txt files are generated, they must be loaded into the FlightConnect database.

To populate the FlightConnect database with text files:

- Generate ASCII text files from third-party software. See appendix for file 1. details.
- 2. Open FlightConnect Edit and in the Database Management tab select the check boxes of the individual files to be converted or click Select All to convert all files.
- 3. Click Read TXT and from the Select Folder for Source TXT Files select the folder that contains the text files and click OK. The text files will convert into .501 and .slf files and automatically save them in the C:\DMS folder.
- Create a new folder in C:\DMS for the FlightConnect master database. 4.
- Move the .501 or .slf files into the master database folder. 5.

DMS & LCR 600 DATABASE POPULATION

Once the FlightConnect database is populated in the office, the databases of the DMS or LCR600 units will need to populated. This is done through DBManager, or via USB (DMS units only).

System Definitions

SysDefs.501 (System Definitions)

TType.501 (Transaction Type)

Truck.slf

The System Definitions (SysDefs.501) file is unique in that it determines settings on the FlightConnect LCR 600 and DMS interface. Because of this, SysDefs.501 should be populated manually in FlightConnect Edit.



Text File

An IT technician may be needed to generate the ASCII text files.

USB FlightConnect Database Updates

In order to populate the master database in FlightConnect systems using USB memory devices, transfer the .501 and .slf files created by FlightConnect Edit into the DMS subfolder on the USB device. Take the USB to the DMS and use the Retrieve Database Updates command on the DMS to pull all of the database files onto the DMS.

FlightConnect Read

FlightConnect Read converts transaction files (CR501xxx.trn), sent from DMS and LCR 600 units in the network, into files (.txt or .xml) for use in third-party accounting or spreadsheet software. It is a service application designed, in conjunction with DBManager, to run in the background of the computer.

FlightConnect Read (and DBManager) must be open to receive and convert transaction files. Read will automatically run every time a transaction file is received from DBManager. As

transaction files come in from the FlightConnect network, Read will append the Comp501.txt (or .xml) file. Read will also convert any transaction files in the C:\DMS folder when the program is opened or when the Convert button in the FlightConnect Read window is clicked.

4/01/22	16:12:21:	Format=COMPTRAN, Delimiter=22, Separator=2C, Edit=DELET
4/01/22	16:12:21:	Conversion request during application startup
4/01/22	16:12:21:	Converting CR501201.trn
4/01/22	16:12:21:	0 records were added to Comp501.txt.
4/01/22	16:12:22:	Conversion request by operator
4/01/22	16:12:22:	Converting CR501201.trn
4/01/22	16:12:22:	0 records were added to Comp501.txt.

FlightConnect Read Window

	A	В	C	D	E	F	G	н	1	
1	version 💌	dateTime 💌	truck 🖬	fueler 🗖	owner1D 💌	recordType 🗖	fileOp 🗖	node 🗖	fileID 💌	SysDefs
2	v1.11	13/12/10 12:08:26	0	12345	MDW	6	2	0	14	"0","1","0","1","1","1","1"
3	v1.11	13/12/10 12:16:27	0	12345	MDW	6	2	0	14	"0","1","0","1","1","1","1"
4	v1.11	13/12/17 16:34:52	0	1	MDW	6	2	0	8	
5	v1.11	14/01/20 12:48:02	0		MDW	6	2	0	14	"0","1","0","1","1","1","1"
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FlightConnect Read .xml Conversion

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35

10 21

/10 29 /10 31 :42 :58 :49

08 08 16:06 39

08

/08 /10 12 30 37

10

1 41 61 007

10214161003

FlightConnect Read .txt Conversion

FlightConnect Read's File Format Output

ACRead's output (.txt or .xml) is determined by the TransFormat: option in the System Definitons file tab.

The FlightConnect Read text field displays the details of recent file conversions.

VALIDATE RECORDS

FlightConnect Read can also create an edit transactions file (Edit501.trn) from the transaction file, if any database edits were made by a DMS in the network. This file will enact the Edit Record Validation feature in FlightConnect Edit. This feature is not available on FlightConnect LCR 600.

FLIGHTCONNECT READ & USB MEMORY DEVICES

If you are using USB memory devices to transfer data between DMSs and the office, FlightConnect Read must be activated manually.

To use FlightConnect Read with the USB memory device:

- 1. Open the FlightConnect USB memory device on your computer, drag and drop (or copy and paste) the transaction file (Comp501.trn) from the USB device into the C:\DMS folder.
- 2a. Open FlightConnect Read. Opening the window will automatically convert the Comp501.trn file in the C:\DMS folder into a CompTran.txt (or .xml).
- 2b. If FlightConnect Read is open, click Convert to convert the Comp501.trn into a CompTran.txt (or .xml).

Certain FlightConnect Read settings and directories can be set up in the Properties window of FlightConnect Read.

- File Conversion Format
- Edit Record Validation Setting
- Converted Files Target Location

See the appendix for more details and instructions.

FlightConnect Read Icon





SETUP & OPERATION

FlightConnect Edit

FlightConnect Edit is a user interface where users can manage FlightConnect database files, change settings to FlightConnect fueling software (DMS and LCR 600 units in the network), and convert FlightConnect files into text files (and text files into FlightConnect files).

At the top of the FlightConnect Edit window, there are eleven tabs. Tabs are opened with a mouse click. The first tab, Database Management, contains buttons which activate several FlightConnect Edit commands and a window that displays the status of these commands. The remaining ten tabs provide interfaces to specific FlightConnect database files. In these tabs, new records can be added, edited, and deleted in the master database file.

Select Database

Clear Display

Begin Validation

Database Management Tab

The Database Management tab is home to FlightConnect Edit commands for converting files, selecting the FlightConnect master database that FlightConnect Edit is interfacing with, and validating database changes made by DMS units in the network. Messages concerning the progress of these commands are reported in the white status window at the bottom of the tab.

FILE CONVERSION

The Read TXT and Write TXT buttons are helpful in building and transferring FlightConnect files and databases. Read TXT converts .txt files in the FlightConnect database into .501 and .slf files. Write TXT converts .501 and .slf files into .txt files. The check boxes, to the right of the buttons, determine which FlightConnect files will be converted by the two buttons. The Select All button checks each box. The Clear All button unchecks each checked box. The Success, Errors, and Totals of each file conversion are displayed in the columns on the right side of the window.

To use Read TXT and Write TXT:

- Open FlightConnect Edit. 1.
- 2. In the Database tab, select the check boxes of the individual files for conversion or click Select All to convert all files.
- Click Read TXT, to convert .txt files to .501 files, or 3. Write TXT, to convert .501 files to .txt files.
- 4. When the Select Folder for Source TXT Files (for Read TXT) or the Select Folder for Target TXT Files (for Write TXT) window opens, select a folder where the converted .txt files (for Read TXT) or the .501 files (for Write TXT) will be placed.
- Click OK. The files generated will be placed in the 5. C:\DMS folder.

Database Management Buttons

ct Folder for Source TXT Files sct a folder from the list

APSCIB b606a15f0e Config.Msi C-Publicatio

Database Management ACode AType Customer Fueler FuelLoc FuelType LoadLoc SysDefs Truck TType

Select Folder for Target CSV Files
Please select a folder from the list:
Control Dek/CD)
OK Cancel

Write TXT Browser





FlightConnect Edit Icon

🔽 Fueling L ✓ Fuel Type

Select All

Clear All



Select Database		×
Application Name: Password:	LAX	
ОК	Cancel	

Select Database

Validate AType: Node #001

Create Record

Validate FuelLoc: Node #001

Name:

Number:

Accept

Delete

<u>R</u>eject

SELECT DATABASE

The **Select Database** window allows user to switch to another database, while FlightConnect Edit is open. The **Select Database** window will open (after an application is setup in DBManager) regardless of the number of databases are open.

Multiple databases are often necessary when multiple sites are managed by one office. Multiple databases are setup in DBManager. If more than one FlightConnect master database is registered in DBManager, the Select Database window will automatically appear each time FlightConnect Edit is opened, prompting the user to select from the registered databases.

VALIDATE RECORDS

Clicking the **Begin Validation** button will initiate a review of any edits to the FlightConnect database made by the DMS units in the FlightConnect network. For example, if a fueler was asked to make a delivery to a plane for a new customer in a new location, entered the new customer and location into the DMS, made the delivery, and sent the delivery file to the office, those changes the fueler made to the database will be presented for validation in FlightConnect Edit

This feature is not available on FlightConnect LCR 600. Records cannot be added on the LCR 600.

Each change will appear one at a time in a succession of pop-up validation windows. There are three possible validation windows: **Create Record**, **Delete Record**, or **Update Record**.

You have four options in a validation window:

- To accept the change, click Accept.
- To edit the change, simply key in any additional data or edits and then click **Accept**.
- To reject the change and preserve the original file, click **Reject**.
- To end/quit the record validation review click Cancel.

If you quit the validation review, the review will restart with the record that was open when you quit. The status field at the bottom of the Database tab will provide details of the validation actions taken (either accept or reject).

Validate Customer: Node #001			
	Update Record	<u>Current Record</u>	
Name:	Dubrow Transit	Dubrow Transit	
Number:	22	22	
Code:	DBW	DUT	
Accept	Reject Cancel		

Cancel

Delete Record

Update Record

SETUP & OPERATION

File Tabs

With the exception of the Database Management tab, all of the tabs in the FlightConnect Edit tool are FlightConnect file tabs. File tabs display the records saved to that file.

A record is a unit of the file. For example, one record in the customer file represents one customer, and one record in the fueler file represents one fueler. One row in the table represents one record. The columns in the table represent the record's fields. A customer record consists of three fields: Name, Account, and Code.

When a file tab is open, records can be added, deleted, or edited.

To add a new record:

- 1. From the **FlightConnect Office** window, click one of the file tabs.
- At the bottom left corner of the file tab, click New. A New window will appear.
- 3. Type (or select from a drop down box) the necessary information into the fields.
- 4. Click OK to save the new record.

To delete a record, perform the following:

- 1. From the **FlightConnect Office** window, click one of the file tabs.
- 2. Click a record to highlight it.
- At the bottom left corner of the file tab, click **Delete**. The **Delete** window will appear.
- 4. Click Yes to delete the selected record.

To edit a record, perform the following:

- 1. From the **FlightConnect Office** window, click one of the file tabs.
- 2. Double-click a record. The Edit window will appear.
- Type (or select from a drop down box) the necessary information into the fields.
- 4. Click OK to save the edited record.

The following pages list and describe the fields of the file tabs. The screens shown and options provided will vary according to actions performed in the database.



Sort Columns

To sort columns in a FlightConnect file tab, double-click on a column header.

New Fueler	X
Number:	0
ID:	
Name: (Last)	
Name: (First)	
Name: (Full)	
Email:	
Security:	00
Applications:	0000
Password:	
Language:	000
ОК	Cancel

New Record (Customer Tab)

Edit Fueler		×
Number:	3	
ID:	3	
Name: (Last)	Boon	
Name: (First)	Shelby	
Name: (Full)	Shelby Boon	
Email:	sboon@lcair.com	
Security:	00	
Applications:	0000	
Password:		
Language:	000	
OK	Cancel	

Edit Airpor	t Code X
Code:	ORD
Name:	O'Hare International Airport
City:	Rosemont
State:	Illinois
Country:	USA
ОК	Cancel

ACode (Aiport Code)

ACODE (AIRPORT CODE)

The ACode (Airport Code) tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting airport codes saved in FlightConnect's ACode database file.

Code:

The letter code for the airport. This is a required field.

Name:

The name of the airport.

City:

The city where the airport is located.

State:

The state or region where the airport is located.

Country:

The country where the airport is located. .

Edit Aircraft Type						
Name:	Beech					
Code:	B45					
0	К	Cancel				

AType (Aircraft Type)

ATYPE (AIRCRAFT TYPE)

The AType (Aircraft Type) tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting aircraft types saved in FlightConnect's AType database file.

Name:

The aircraft type. Seven alphanumeric characters maximum.

Number:

A user-defined number assigned to the aircraft type.

SETUP & OPERATION

CUSTOMER

The Customer tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting customer information saved in FlightConnect's Customer database file. This file includes anyone who can receive fuel.

Name:

The customer's name.

Account

The customer's account number.

Code:

A user-defined code assigned to the customer.

Edit Custon	ner	×
Name:	LC Air	
Account:	LA5	
Code:	LAS	
OK	Cancel	

Customer

FUELER

The Fueler tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting fueler ID information saved in FlightConnect's Fueler database file.

Number:

A user-defined number assigned to the fueler.

ID:

A user-defined ID assigned to the fueler ID. This value is used in LCR 600 Fueler Logon.

Name (Last):

The fueler's last name.

Name (First):

The fueler's first name.

Name (Full):

The fueler's full name.

Email :

The fueler's email. Can be used to send FlightConnect Dispatch alerts

Password

The fueler's password.

On DMS FlightConnect, if a password is entered in the database, the fueler will need to first select their name, then enter this password to log on. On LCR 600 FlightConnect, if a password is entered, the fueler will be first prompted to enter their Fueler ID, then enter the password.

Security:

The security access of the fueler on the DMS.

Applications:

The LC fueling system applications available to the fueler on the DMS.

Language:

The language on the DMS Lap Pad display after the fueler logs on.

Edit Fueler	X
Number:	3
ID:	3
Name: (Last)	Boon
Name: (First)	Shelby
Name: (Full)	Shelby Boon
Email:	sboon@lcair.com
Security:	00
Applications:	0000
Password:	
Language:	000
ОК	Cancel

Fueler

The fueler file is shared by FlightConnect and EZConnect Fueling Systems.

Edit Fueling Location					
Name: Number:	Gate 3	3			
OK		Cancel			

FuelLoc (Fuel Location)

FUELLOC (FUEL LOCATION)

The FuelLoc (Fuel Location) tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting fueling locations saved in FlightConnect's FuelLoc database file. Each record in the FuelLoc file represents a location where an aircraft can be fueled.

Name:

The fueling location's name.

Number:

A user-defined number assigned to the fueling location.

Edit Fuel Type					
Name:	Jet A				
Product:	1 💌				
Code:	1				
			- 1		
OK		Cancel			

FuelType

FUEL TYPE

The FuelType tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting fuel types, mapping the product back to the LectroCount register, labeling the product on the ticket, and designating a product code in FlightConnect's FuelType database file.

Name:

The fuel type's name.

Product:

The product number used by the LectroCount register to calibrate the product. The standard aviation setting is **1**.

1•2•3•4

Code:

A user-defined code asigned to the product and onto the fueling tickets after fueling.

Edit Load Location						
A16						
16						
Jet A	•					
-						
Cance	!					
	Cation A16 16 Jet A Cance					

LoadLoc (Loading Location)

LOADLOC (LOADING LOCATION)

The LoadLoc (Loading Location) tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting fuel loading locations saved in FlightConnect's LoadLoc database file. Each record in the LoadLoc file represents a location where a refueler can be loaded with fuel.

Name:

The name of the fuel loading location.

Number:

A user-defined number assigned to the fuel loading location.

Fuel Type:

The fuel type dispensed at the fueling location.

The Fuel Type list is automatically generated from the Fuel Type file. Any Fuel Types that were created in that file will automatically display in this list box.

SETUP & OPERATION

SYSDEFS (SYSTEMS DEFINITIONS)

The SysDefs (Systems Definitions) tab is FlightConnect Edit's user interface for viewing, creating, or editing FlightConnect system settings and information saved in FlightConnect's SysDefs database file and applied to the operation of DMS and LCR 600 units.

Base ID:

A user-defined ID assigned to the fueling operation.

Code:

Typically, the three or four letter airport code for the airport where the fueling operation is located.

Name:

The name of the fueling operation.

Address 1:

The first line of the fueling operation's address.

Address 2:

The second line of the fueling operation's address.

City:

The city where the fueling operation is located.

State:

The state where the fueling operation is located.

Zip:

The postal zip code where the fueling operation is located.

Phone #:

The phone number of the fueling operation.

Password:

The password for access to FlightConnect LCR 600's Configuration Menu or the FlightConnect DMS' Database Management. *Blank = no password.*

Load Truck #:

The load truck number assigned when moving fuel between trucks. **DMS only**

Tail Letter:

Sets a default letter before the tail number. For example, if all tails from this location begin with N, "N" can be defaulted so the fueler does not need to enter it.

InvType:

The volume setting. DVIS only

Net • Gross

Decimals:

The decimal place setting applied to the totalizers' inventory volumes. *DIVS only*

Hundredths. Tenths. Whole

Additive

The text of a prompt, requiring the fueler to answer yes/no, displayed before a fueling. Text can be entered and edited in the text box. The text and prompt answer will be printed on the ticket. This prompt is enabled when the **Additive**: box in Enable Options is checked.

Misc1 Text - Misc2 Text - Misc3 Text

Prompt screen that can be included in the series of FlightConnect fuelng screens. The text in these field will appear as the title of the screens on the LCR 600 or DMS. When these screens appearFuelers can enter a response into a text box on the fueling screen. The title of the prompts and the fueler's answers will be printed on the ticket. Prompts are enabled when the **Misc1 Text**, **Misc2 Text**, or **Misc3 Text** boxes in Enable Options is checked.

TRANSACTIONS

Format

The file format of FlightConnect Read output.

CompTran(text file) • ASR (backward compatible LC file format- contact factory for more information) • XML

Target:

The target location for the delivery files. This should be set to Office for LCR 600 units.

Local • USB • Office

Transmit

Sets the frequency/occasions when LCR 600s and DMSs will attempt to send and retrieve data from the office.

ENABLE OPTIONS

The Enable Options boxes activate features and settings in the FlightConnect Fueling software on LCR 600 and DMS units in the network.

SysDefs Check Boxes

Checked = activated : Unchecked = deactivated

Enable Options Enabled?

Enable Options in System Definitions must also be enabled (box checked) in the Used Fields of the Transaction Type to be activated on the LCR 600 or DMS.

Additive

A yes/no prompt displayed to the fueler before fueling. The prompt text matches the text that appears in the **Additive**: text box.

АТуре

A list box prompt of aircraft types (from the AType file). The fueler must make a selection before fueling.

Comment

A comment printed onto fueling tickets. Comment text can be entered and edited in the **Comment**: text box in the Default Options section below.

Customer

A list box prompt of customers (from the Customer file). Fuelers must make a selection before fueling.

Destination

A text box prompt where the fueler must enter the aircraft's destination code before fueling.

Flight

A text box prompt where the fueler must enter the aircraft's flight number before fueling.

Fuel Cap

Prints message Fuel Cap & Door Secured: Yes No on the fueling ticket. Fuelers can circle Yes to verify that the fuel cap was properly replaced on the aircraft.

SYSDEFS (SYSTEMS DEFINITIONS) CONT'D

ENABLE OPTIONS (CONT'D)

FuelLoc

A list box prompt of fueling locations (from the FuelLoc file). The fueler must make a selection before fuelings.

FuelType

A list box prompt of fuel types (from the FuelLoc file). The fueler must make a selection before fueling.

MeterSelect

A list box prompt of meters (on the refueler). The fueler must make a selection before fueling. *DMS only*

Misc1 Text - Misc2 Text - Misc3 Text

Prompts displayed to the fueler before fueling. The prompt text matches the text that appears in the **Misc1 Text**, **Misc2 Text**, or **Misc3 Text** text boxes.

OnRoad

A yes/no prompt to a "OnRoad" message before fuelings. If the OnRoad box in the Default Options is checked, "Yes" will be the default. **DI/S only**

Origin

A text box prompt where the fueler must enter the aircraft's origin code before fueling. A default origin code can be supplied by selecting from the **Origin:** list box in the Default Options section.

Print Inventory

Prints the current on board inventory onto all printed tickets. DWS only

ENABLE OPTIONS (CONT'D)

Tail

A text box prompt where the fueler must enter the aircraft's tail number before fueling.

Simultaneous

Enables simultaneous deliveries. DIVIS only

DEFAULT OPTIONS

Transaction:

The default setting for the Transaction Type prompt on the DMS and LCR 600. The drop down box contains the transaction types in the TType file tab.

Fuel Type:

The default Fuel Type for all LCR 600 and DMS fuelings. The drop-down box contains all fuel types in the FuelType file tab.

Origin:

The default airport code of origin for all LCR 600 and DNS fuelings. *The drop-down box contains all codes in the ACode file tab.*

Comment

A comment printed onto delivery tickets. Text can be entered and edited in the text box.

OnRoadt

Sets the default to "Yes" for the OnRoad prompt activated in the Enable Options section. *DVIS only*

SysDefs (Systems Definitions)

SETUP & OPERATION

TRUCK

The Truck tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting fueling truck data saved in FlightConnect's Truck database file.

Unit ID:

The unit ID code of the LectroCount register on the truck.

The LCR Unit ID field in the Truck File of the FlightConnect database must match the LCR Unit ID field in LCRHost's General Setup (1/5) screen on the DMS and the Unit ID: in the General Setup 1 screen on the LCR 600.

Name:

The truck's name.

Number:

The user-defined number assigned to the truck.

Network:

The truck network. Typically indicates the number of LectroCount registers on the truck.

New Truck		×
LCR Unit ID:	C24	
Name:	C24	
Number:	24	
Network:	1	
ОК	Cancel	

Truck

The truck file is shared by FlightConnect and EZConnect LC Fueling Systems.

TTYPE

The TType (Transaction Type) tab is FlightConnect Edit's user interface for viewing, creating, editing, or deleting the selection of transaction types saved in FlightConnect's TType database file.

Name:

The transaction type's name.

Code:

A user-defined code assigned to the transaction type.

Inventory Operation:

The effect of the transaction type on the volume of the truck's inventory.

Add · Ignore · Subtract

Used Fields:

Defines which features and settings are the transaction type is selected on the LCR 600 or DMS. See System Definitions for field definitions.

Used Fields Enabled?

Used Fields in the Transaction Type must also be enabled (box checked) in the System Definitions Enable Options to be activated on the LCR 600 or DMS.

Edit Transaction Ty	уре	x
Name:	Truck to 1	Iruck Transfer
Code:	TT	
Inventory Operation	n: Subtract	•
Used Fields		
Additive	🗌 Fuel Cap	🗌 On Road
AType	🔽 Fuel Loc.	Crigin
Comment	🗌 Fuel Type	🗌 Req. Vol.
Customer	Misc1 Text	🔲 Tail #
Destination	Misc2 Text	
Flight #	Misc3 Text	
ОК	Cancel	

TType (Transaction Type)

FlightConnect Dispatch

FlightConnect Dispatch is a user interface where fueling assignments (dispatches) can be configured and dispatched to LCR 600 units in the FlightConnect network. Dispatch can also be configured to send email and SMS alerts to notify fuelers and other personnel that a fueling dispatch has been sent to the LCR 600. FlightConnect Dispatch will not function unless DBManager and FlightConnect Dispatch are both open.



FlightConnect Dispatch Icon



FlightConnect Dispatch Color Codes							
White	White LOR 600 has not received dispatch						
Green	Green LCR 600 has received dispatch						
Blue Dispatchedit has not been received by the LOR 600							
Yellow Dispatch deletion has not been received by the LCR 600							
Pink	Dispatch has been rejected by the LOR 600						

🖁 Fligh	tConnect Dis	spatch									
Dispat	tch Entry										
Fuelir	ng Due:	1/20/2014	• 4	54:54 PM 🔹							
Trans	saction Type:	Defuel		•							
Custo	omer:	air Sleigh				-					
Aircra	aft Type:	3.010 ¥		Location:	Cate 2		T.	Trucke	Truck 11		-
- Duals	Turner and the second	A310 Y	_		Tatle 2	venat	-	Touch	ITUCK AI		
Fuel	Type:	Jet A	-	L Addave	IntiE	xempt -		Truck Weight:		_	
Tail N	lumber:			Flight Number:				Truck Volume:	0.0	F2=Ente	r weight.
Origin	n:			Destination:							
Comr	nent:							Dispatch			
		,									
Activ	e Dispatch	Records	Dispat	ch Pending	On Truck	Edi	t Penc	ing 🔽 D	elete Pending	Dispat	tch Rejected
ID	Due		Truck			Volume	F	uel Type	Location		Flight
1	10/21/1	3 13:03:04	Truck	A1		23.0	J	et A	Gate 2		123
2	10/31/1	3 12:38:08	Truck	Al		250.0	J	et A	Gate 2		5889
3	12/04/1	3 14:46:28	Truck	A1		500.0	J	et A	Gate 3		2345
4	12/04/1	3 14:46:28	Truck	Al		250.0	J	et A	Gate 3		4241
5	12/04/1	3 14:46:28	Truck	Al		200.0	J	et A	West Hangar		1222
6	12/04/1	3 14:46:28	Truck	Al		150.0	J	et A	West Hangar		5678
7	12/12/1	3 11:41:16	Truck	Al		2555.0	J	et A	West Hangar		2533
8	12/17/1	3 17:59:46	Truck	Al		515.0	J	et A	Gate 3		585
9	12/17/1	3 17:59:46	Truck	A1		500.0	J	et A	Gate 4		516
I											
Dgl	ete								Send Em	ail 🔅	Setup Email

FlightConnect Dispatch

FLIGHTCONNECT DISPATCH SETUP

FlightConnect Dispatch will not be able to access the FlightConnect database until it is mapped to the database folder.

To map Dispatch to FlightConnect master database folder:

- 1. Right-click on the FlightConnect Dispatch icon and select Properties from the menu.
- 2. In the Target: field, add the name FlightConnect master database folder to the existing file path. The folder name must be preceded by a space and "/a:"

Example: C:\DMS\ACDispatch.exe /a:Master

FLIGHTCONNECT DISPATCH OPERATION

After a dispatch is created in FlightConnect Dispatch, it will appear in the table at the bottom of the window. Until the dispatch assignment is completed, dispatches are color-coded to indicate their status. When the LCR 600 has completed the dispatch, it will disappear from the table.

Dispatch fueling assignments are sent according to the **Transmit:** settings in the System Definitions tab. Dispatch fueling assignments can also be retrieved by the assigned LCR 600 with **Retrieve Database Updates from Office** command in the Database Management window.

To create a dispatch:

- 1. Enter values in the FlightConnect Dispatch fields.
- 2. Click Dispatch.

Required Fields

Tail Number - Flight Number - Truck Volume Dispatch will not send an assignment without a value entered in these fields

To edit a dispatch:

- 1. Double-click on the dispatch in the table that requires editing.
- 2. In the Edit Dispatch Record window, change the fields that require editing, and click **OK**.

To delete a dispatch:

1. Highlight the dispatch in the table that requires editing, and click the **Delete** button.

SETUP & OPERATION

EMAIL & SMS DISPATCH NOTIFICATION

FlightConnect Dispatch includes an email and SMS notification feature that sends notifications to fuelers' mobile devices alerting them of a pending dispatch. Notifications can be setup to automatically prompt the FlightConnect Dispatch user, upon sending the dispatch, to select the fueler(s) to send the dispatch alert to. Notifications can also be sent manually.

EMAIL & SMS ADDRESSES

Fueler email addresses are entered in the Fueler tab in FlightConnect Edit. To use SMS notifications, the fuelers' email addresses can be derived from their mobile device phone numbers by obtaining the "email to SMS gateway address" for the mobile device

MANUAL DISPATCH NOTIFICATION

The Send Email button will bring up a new email window, where a subject and a dispatch notification can be manually entered.

To send a manual dispatch notification:

- 1. From the FlightConnect Dispatch window, click **Send Email**.
- 2. Click **To:**, **CC:**, and/or **BCC:** to open the Choose Email Recipients window, and select the email recipients. Emails can also be entered manually.
- 3. Enter a subject and notification in the email body section, and click **Send.**

Broadcast Em	ail Setup 🗴	1
To:	adegner@lcair.com	
CC:		
BCC:		
Subject:	Dispatch - Air Sleigh	
Fuel ASAP		
Send	Cancel	

Broadcast Email

П	Fueler Name	Fueler Email Address	
	Shelby Boon	sboon@lcair.com	
	Pat Grams	pgrams@lcair.com	
	Art Degner	adegner@lcair.com	

Choose Email Recipients



AUTOMATIC DISPATCH NOTIFICATION CONFIGURATION

FlightConnect Dispatch can be setup to automatically prompt the FlightConnect Dispatch user, upon sending the dispatch, to select the fueler(s) to send the dispatch alert to. When configured, FlightConnect dispatch will automatically open the Choose Email Recipients window, and the dispatch alert will be sent when the OK button is clicked.

Dispatch Email Setup	×
SMTP Server URL:	1
Sender's Email Address:	1
Send Dispatch Email?	
OK	

Dispatch Email Setup

Subject: Dispatch Alert!

Date and Time: 11/11/08 14:13:55

Truck Name: Node250

Tail Number: M4232

Location: D Concourse

Dispatch Volume: 100

Example Alert Email

To setup automatic dispatch notification (if the computer has an Outlook Exchange server setup):

- 1. From the FlightConnect Dispatch window, click **Setup Email**.
- 2. Click Send Dispatch Email?, and click OK. The other two fields can be left empty.

To setup automatic dispatch notification (if specifying a specific SMTP server):

- 1. From the FlightConnect Dispatch window, click **Setup Email**.
- 2. Follow the Verify SMTP Server Communication steps in the Appendix of this manual.
- 3. Enter the proper SMTP Server URL: and an allowed Sender's Email Address:
- 4. Click Send Dispatch Email?, and click OK.

DATA FILES OVERVIEW

The first section of the appendix includes examples of ASCII text files (.txt) and tables describing each field. The text file name and the DMS file name are noted in parantheses.

Numeric fields must contain a value. If the field does not have a value, use a "0".

If an alphanumeric fields does not have a value, use a blank space " ".

FIELD TYPES

The number in the Field Type column represents the maximum number of characters allowed in the field.

- A Alphanumeric
- N Numeric, no decimal point
- F Numeric floating, decimal point

Airport Code File (ACode.txt - ACode.501)

"ADM", "Ardmore Municipal Airport", "Ardmore", "OK", "USA"

Field #	Field Name	Description	Field Type	Example
1	Code	Code of airport location.	A4	ADM
2	Name	Name of airport location.	A79	Ardmore Municipal Airport
3	City	City of airport location.	A47	Ardmore
4	State	State of airport location.	A31	ОК
5	Country	Country of airport location.	A31	USA

Aircraft Type File (AType.txt - AType.501)

"BO 747","747"

Field #	Field Name	Description	Field Type	Example
1	Name	Name of aircraft type.	A7	BO 747
2	Code	Aircraft type code.	A10	747

Customer File (Customer.txt - Customer.501)

"Jet Blue","47","JTB"

Field #	Field Name	Description	Field Type	Example
1	name	Customer name.	A35	Jet Blue
2	account	Customer account number.	A12	47
3	code	Customer code.	A4	JTB

DATA FILES Fueler File (Fueler.txt - Fueler.slf)

"7777","1947","Richard John MacReady","Richard John","MacReady","<u>1234","2","0","1"</u>

Field #	Field Name	Description	Field Type	Example
1	number	Operator defined fueler number (Required)	A16	7777
2	id	Operator defined fueler ID (Required)	A16	1947
3	full name	Full name of fueler	A35	Richard John MacReady
4	firstName	First name of fueler	A17	Richard John
5	lastName	Last name of fueler	A17	MacReady
6	email	Fueler email	A254	
7	password	Operator defined password	A10	1234
8	security	Security level of fueler	N (0-255)	2
9	applications	Applications that can be run by the fueler	N (0-65535)	0
10	language	DMS Lap Pad display language (Required)	N (0-999)	1

Fuel Location File (FuelLoc.txt - FuelLoc.501)

"Gate 1","1"

Field #	Field Name	Description	Field Type	Example
1	name	Name of fueling location.	A18	Gate 1
2	number	Fueling location number.	A6	1

Fuel Type File (FuelType.txt - FuelType.501)

"Jet A","0","1"

Field #	Field Name	Description	Field Type	Example
1	name	Name of the fuel type.	A12	Jet A
2	product	Product number in the LCR that is calibrated for delivery of this fuel type. This is an index into an LCR list variable.	N (0-3)	0
3	code	Fuel type code.	A3	1

Load Location File (LoadLoc.txt - LoadLoc.501)

"LoadRack2","2"."Jet A"

Field #	Field Name	Description	Field Type	Example
1	name	Name of the load location.	A16	LoadRack2
2	number	Load location number.	N10	2
3	type	Type of fuel to load.	A12	Jet A

DATA FILES System Definitions File (SyesDefs.txt - SysDefs.501)

Field #	Field Name	Description	Field Type	Example
1	baseID	ID of the fueling operation.	A4	001
2	baseCode	Airport code of the fueling operation.	A4	ORD
3	baseName	Name of the fueling operation.	A35	O'Hare Airport
4	baseAddr1	First address line of the fueling operation.	A35	
5	baseAddr2	Second address line of the fueling operation.	A35	
6	baseCity	City where the fueling operation is located.	A19	Chicago
7	baseState	State where the fueling operation is located.	A2	IL
8	baseZip	Zip code of the fueling operation.	A10	60000
9	basePhone	Phone number of the fueling operation.	A14	312-654-9632
10	dbPassword	Database access password.	A10	
11	additivePrompt	Text displayed for additive prompt.	A19	0
12	transFormat	Transaction format. 0=CompTran, 1=ASR or 2=XML.	N (0-2)	2
13	transTarget	Secondary target for transaction record	N (0-2)	2
14	transSend	Bit map defining when transaction records are sent to the office.	N (0-255)	0
15	transPeriod	Periodic transaction send time in seconds.	N (0-65535)	49
16	loadTruckNumber	Used to generate ASR.number for load truck transactions.	A6	0
17	invType	Type of inventory maintained for the fuel truck. 0=GROSS or 1=NET.	N (0-1)	0
18	decimals	Number of decimal digits maintained in LCRData quantities. 0=Hundreths, 1=Tenths or 2=Whole	N (0-2)	2
19	enableAdditive	Enables the additive prompt.	N (0-1)	0
20	enableAType	Enables the aircraft type prompt. 0=No or 1=Yes	N (0-1)	0
21	enableComment	Enables the ticket comment prompt. 0=No or 1=Yes	N (0-1)	0
22	enableCustomer	Enables the customer name prompt. 0=No or 1=Yes	N (0-1)	0
23	enableDestination	Enables the destination airport code prompt. 0=No or 1=Yes	N (0-1)	1
24	enableFlightNumber	Enables the flight number prompt. 0=No or 1=Yes	N (0-1)	0
25	enableFuelCap	Enables printed message "Fuel Cap & Door Secured: Yes No" on the fueling ticket.	N (0-1)	1
26	enableFuelLoc	Enables the fueling location prompt. 0=No or 1=Yes	N (0-1)	1
27	enableFuelType	Enables the fuel type prompt. 0=No or 1=Yes	N (0-1)	0
28	enableMeterSelect	Enables meter selection prompt. 0=No or 1=Yes	N (0-1)	1
29	enableMisc1	Enables miscellaneous text prompt #1.	N (0-1)	0
30	enableMisc2	Enables miscellaneous text prompt #2.	N (0-1)	0
31	enableMisc3	Enables miscellaneous text prompt #3.	N (0-1)	0
32	enableOnRoad	Enables the on road indicator prompt. 0=No or 1=Yes	N (0-1)	0
33	enableOrigin	Enables the origin airport code prompt. 0=No or 1=Yes	N (0-1)	0
34	enablePrintInventory	Enables printing inventory on delivery ticket. 0=No or 1=Yes	N (0-1)	0

DATA FILES System Definitions File (SyesDefs.txt - SysDefs.501)

Field #	Field Name	Description	Field Type	Example
35	enableRequestVolume	Enables the requested volume prompt.	N (0-1)	1
36	enableTailNumber	Enables the tail number prompt. 0=No or 1=Yes	N (0-1)	0
37	defaultComment	Default comment to be printed on ticket.	A35	
38	defaultFuelType	Default fuel type being delivered.	A12	Jet A
39	defaultOnRoad	Default state of on road field	N (0-255)	
40	defaultOrigin	Default airport code of origin.	A4	ORD
41	defaultTailLetter	Default starting letter of tail number.	A1	
42	defaultTType	Default transaction type name.	A23	
43	misc1Prompt	Prompt text for miscellaneous text #1.	A18	
44	misc2Prompt	Prompt text for miscellaneous text #2.	A18	
45	misc3Prompt	Prompt text for miscellaneous text #3.	A18	
46	enableSimultaneous	Enables simultaneous meter deliveries.	N (0-1)	

Truck File (Truck.txt - Truck.slf)

"T1","1", "Truck1","2"

Field #	Field Name	Description	Field Type	Example
1	unitID	Unit ID of LCR at node address 1 on the truck.	A10	T1
2	number	Truck number.	N10	1
3	name	Name of the truck.	A16	Truck1
4	network	Network number used by the truck.	N5	2

Transaction Type File (TType.txt - TType.501)

"Fuel","FL","65535","2"

Field #	Field Name	Description	Field Type	Example
1	name	Name of the transaction type.	A23	Fuel
2	code	Transaction type code.	A3	FL
3	fields	Bit map of which defines which fields are used.	N (0-4294967295)	65535
4	inventoryOp	Inventory operation for this transaction type. 0=Add, 1=Ignore or 2=Subtract	N (0-2)	2

DATA FILES

Completed Transactions File (CompTran.txt - COMP501.trn - CR501201.trn)

COMP501.trn - FlightConnect DMS Transaction File - includes edit records

CR501201.trn - FlightConnect LCR 600 Transaction File - no edit Records

COMPLETED TRANSACTIONS FILE (COMPTRAN.TXT)

Each record in the CompTran.txt file includes the first five field numbers listed in the table. The 5th field signifies the record type. Fields after the 5th field consist of the fields of the record type signified in field 5. The following two records are listed out in the example column of the table for reference.

"10/09/09 12:14:52","1","80","45","0","0.0","0.0","1" (Fueler Logon Record - see example below)

"10/09/09 12:16:41","1","80","45","1","0.0","0.0","1" (Fueler Logoff Record - see example below)

DMS COMPLETED TRANSACTIONS FILE (COMP501.TRN)

Field #	Field Name	Description	Field Type	Example
1	dateTime	Date and time record was written. yy/mm/dd hh:mm:ss.	A17	10/09/09 12:14:52
2	truck	Truck Number.	N16	1
3	fueler	Fueler number.	A16	80
4	baseID	ID of the fueling operation's base.	A4	45
5	recordType	Type of record. (See record types in shaded boxes below.)	A1	0, 1, & 3
	-	recordType = 0 (Fueler Logon)	-	
1	odometer	Odometer reading at the time of the logon.	A11	0.0
2	unaccounted	Unaccounted fuel at the time of the logon.	A11	0.0
3	decimals	Decimal setting for quantity fields.	N (1-255)	1
		recordType = 1 (Fueler Logoff)	_	
1	odometer	Odometer reading at the time of the logoff.	A11	0.0
2	unaccounted	Unaccounted fuel at the time of the logoff.	A11	0.0
3	decimals	Decimal setting for quantity fields.	N (1-255)	1
		recordType = 2 (Recirculation)		
1	beginDelivery	Date/Time delivery began. yy/mm/dd hh:mm:ss	A17	
2	endDelivery	Date/Time delivery ended. yy/mm/dd hh:mm:ss	A17	
3	saleNumber	LCR sale number of the delivery.	N ±10	
4	grossQty	Gross quantity of fuel recirculated.	N ±10	
5	netQty	Net quantity of fuel recirculated.	N ±10	
6	transType	Transaction type of delivery.	A3	
7	decimals	Decimal setting for quantity fields.	N (0-2)	
8	averageTemp	Average temperature of product during delivery.	F5	
9	maxPressure	Maximum dP during delivery.	F5	
10	maxPressureRate	Flow rate when maximum dP was read.	N ±10	

DATA FILES

DMS COMPLETED TRANSACTIONS FILE (COMP501.TRN)

Field #	Field Name	Description	Field Type	Example	
	recordType = 3 (Aircraft Fill)				
1	meter1GrossStart	Gross total on meter 1 at the start of the delivery.	N ±10		
2	meter1GrossEnd	Gross total on meter 1 at the end of the delivery.	N ±10		
3	meter1NetStart	Net total on meter 1 at the start of the delivery.	N ±10		
4	meter1Net End	Net total on meter 1 at the end of the delivery.	N ±10		
5	meter2GrossStart	Gross total on meter 2 at the start of the delivery.	N ±10		
6	meter2GrossEnd	Gross total on meter 2 at the end of the delivery.	N ±10		
7	meter2NetStart	Net total on meter 2 at the start of the delivery.	N ±10		
8	meter2Net End	Net total on meter 2 at the end of the delivery.	N ±10		
9	meter3GrossStart	Gross total on meter 3 at the start of the delivery.	N ±10		
10	meter3GrossEnd	Gross total on meter 3 at the end of the delivery.	N ±10		
11	meter3NetStart	Net total on meter 3 at the start of the delivery.	N ±10		
12	meter3Net End	Net total on meter 3 at the end of the delivery.	N ±10		
13	deliveryTotal	Sum of totals from all three meters at the end of the delivery. If temperature compensated, will use net; otherwise, gross.	N ±10		
14	dispatchID	Dispatch ID from office computer.	N (1-65535)		
15	decimalsTotal	Decimal setting for delivery total.	N (0-2)		
16	meter1CompType	Compensation type on meter 1.	N (0-9)		
17	meter2CompType	Compensation type on meter 2.	N (0-9)		
18	meter3CompType	Compensation type on meter 3.	N (0-9)		
19	meter1Decimals	Decimal setting for meter 1 volume fields.	N (0-2)		
20	meter2Decimals	Decimal setting for meter 2 volume fields.	N (0-2)		
21	meter3Decimals	Decimal setting for meter 3 volume fields.	N (0-2)		
22	onRoad	On-road indicator for aircraft being filled.	N3		
23	aircraftType	Aircraft type being filled.	A10		
24	comment	Comment associated with delivery.	A35		
25	account	Customer account number.	A12		
26	destination	Destination airport code.	A4		
27	endDateTime	Date/Time delivery ended.	A17		
28	flightNumber	Flight number of aircraft being filled.	A6		
29	fuelType	Type of fuel delivered.	A3		
30	invoice	Invoice number = mmdduunsss where mm is the month, dd is the day, uu is the last two characters of the LCR Unit ID, n is the last digit of the LCR node address, and sss is the last three digits of the LCR sale number.	A19		
31	location	Fueling location.	A6		
32	origin	Origin airport code.	A4		
33	startDateTime	Date/Time delivery began.	A17		
34	tail	Tail number of aircraft being filled.	A7		
35	transType	Transaction type of delivery.	A3		
36	averageTemp	Average temperature of product during delivery.	F5		
37	maxPressure	Maximum dP during delivery.	F5		
38	maxPressureRate	Flow rate when maximum dP was read.	N ±10		
39	additiveUsed	Additive injection was used during delivery.	N (0-1)		

DATA FILES

DMS COMPLETED TRANSACTIONS FILE (COMP501.TRN)

recordType = 4 (DOT Information)					
1	odometer	Odometer reading at the time of the DOT inspection.	A11		
2	engine	Yes/No indicating whether or not the engine was checked.	N (0-1)		
3	transmission	Yes/No indicating whether or not the transmission was checked.	N (0-1)		
4	clutch	Yes/No indicating whether or not the clutch was checked.	N (0-1)		
5	steering	Yes/No indicating whether or not the steering mechanism was checked.	N (0-1)		
6	horn	Yes/No indicating whether or not the horn was checked.	N (0-1)		
7	windshield	Yes/No indicating whether or not the windshield wipers/washers were checked.	N (0-1)		
8	rearMirrors	Yes/No indicating whether or not the rear view mirrors were checked.	N (0-1)		
9	lightsReflectors	Yes/No indicating whether or not the lights and reflectors were checked.	N (0-1)		
10	parkingBrakes	Yes/No indicating whether or not the parking brakes were checked.	N (0-1)		
11	serviceBrakes	Yes/No indicating whether or not the service brakes were checked.	N (0-1)		
12	tires	Yes/No indicating whether or not the tires were checked.	N (0-1)		
13	wheelsRims	Yes/No indicating whether or not the wheels and rims were checked.	N (0-1)		
14	eEquipment	Yes/No indicating whether or not the emergency equipment was checked.	N (0-1)		
15	ERSat150	Yes/No indicating whether or not the ERS was checked and works from 150 ft. away.	N (0-1)		
16	truckCondition	Yes/No indicating whether or not the overall truck condition is OK.	N (0-1)		
	_	recordType = 5 (Load Truck)			
1	fromLoadLoc	Load location of unit to unit transfer.	N6		
2	toUnit	Destination of unit to unit transfer.	N1		
3	quantity	Quantity of fuel transferred.	N ±10		
4	compType	Compensation type of fuel.	N (0-9)		
5	decimals	Decimal setting for quantity field.	N (0-2)		
6	dateTime	Date/Time of fuel transfer. yy/mm/dd hh:mm:ss.	A17		
7	fuelType	Fuel type delivered to the vehicle.	A3		
8	transType	Transaction type.	A3		
		fileID = 0 (ACode File)			
		fileID = 1 (AType File)			
		fileID = 2 (Customer File)			
fileID = 3 (Fueler File)					
fileID = 4 (FuelLoc File)					
fileID = 5 (FuelType File)					
	fileID = 6 (LoadLoc File)				
	fileID = 7 (SvsDefs File)				
		fileID = 9 (TType File)			

DATA FILES LCR 600 COMPLETED TRANSACTIONS FILE (CR501201.TRN)

Field #	Field Name	Description	Field Type	Example	
1	dateTime	Date and time record was written. yy/mm/dd hh:mm:ss.	A17		
2	truck	Name of the truck.	N16		
3	fueler	Fueler number.	A16		
4	baseID	ID of the fueling operation's base.	A4		
5	recordType	Type of record. (See record types in shaded boxes below.)	N1		
		recordType = 0 (Fueler Logon)			
2	unaccounted	Unaccounted fuel at the time of the logon.	A11		
3	decimals	Decimal setting for quantity fields.	N (1-255)		
	recordType = 1 (Fueler Logoff)				
2	unaccounted	Unaccounted fuel at the time of the logoff.	A11		
3	decimals	Decimal setting for quantity fields.	N (1-255)		
		recordType = 2 (Recirculation)			
1	averageTemp	Average temperature of product during delivery.	F5		
2	maxPressure	Maximum dP during delivery.	F5		
3	saleNumber	LCR sale number of the delivery.	N ±10		
4	grossQty	Gross quantity of fuel recirculated.	N ±10		
5	maxPressureRate	Flow rate when maximum dP was read.	N ±10		
6	netQty	Net quantity of fuel recirculated.	N ±10		
7	dateFormat	Format of date used in the register.	A7		
8	decimals	Decimal setting for quantity fields.	N (1-255)		
9	beginDelivery	Date/Time delivery began. yy/mm/dd hh:mm:ss	A17		
10	endDelivery	Date/Time delivery ended. yy/mm/dd hh:mm:ss	A17		
11	transType	Transaction type of delivery.	A23		

DATA FILES

LCR 600 COMPLETED TRANSACTIONS FILE (CR501201.TRN)

Field #	Field Name	Description	Field Type	Example
		recordType = 3 (Aircraft Fill)		
1	averageTemp	Average temperature of product during delivery.	F5	
2	maxPressure	Maximum dP during delivery.	F5	
3	deliveryTotal	Sum of totals from all three meters at the end of the delivery. If temperature compensated, will use net; otherwise, gross.	N ±10	
4	maxPressureRate	Flow rate when maximum dP was read.	N ±10	
5	meter1GrossStart	Gross total on meter 1 at the start of the delivery.	N ±10	
6	meter1GrossEnd	Gross total on meter 1 at the end of the delivery.	N ±10	
7	meter1NetStart	Net total on meter 1 at the start of the delivery.	N ±10	
8	meter1Net End	Net total on meter 1 at the end of the delivery.	N ±10	
9	requestedVolume	Requested volume for the delivery.	N ±10	
10	dispatchID	Dispatch ID from office computer.	N (1-65535)	
11	additiveUsed	Additive injection was used during delivery.	N (0-1)	
12	dateFormat	Format of date used in the register.	N (0-1)	
13	meter1CompType	Compensation type on meter 1.	N (0-9)	
14	meter1Decimals	Decimal setting for meter 1 volume fields.	N (0-1)	
15	account	Customer account number.	A12	
16	aircraftType	Aircraft type being filled.	A10	
17	comment	Comment associated with delivery.	A35	
18	destination	Destination airport code.	A4	
19	endDateTime	Date/Time delivery ended.	A17	
20	flightNumber	Flight number of aircraft being filled.	A6	
21	fuelType	Type of fuel delivered.	A3	
22	invoice	Invoice number = mmdduunsss where mm is the month, dd is the day, uu is the last two characters of the LCR Unit ID, n is the last digit of the LCR node address, and sss is the last three digits of the LCR sale number.	A19	
23	location	Fueling location.	A6	
24	misc1	Entry text for miscellaneous field #1.	A16	
25	misc2	Entry text for miscellaneous field #2.	A16	
26	misc3	Entry text for miscellaneous field #3.	A16	
27	origin	Origin airport code.	A4	
28	startDateTime	Date/Time delivery began.	A17	
29	tail	Tail number of aircraft being filled.	A7	
30	transType	Transaction type of delivery.	A3	

DATA FILES

LCR 600 COMPLETED	TRANSACTIONS FILE	(CR501201.TRN)
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Field #	Field Name	Description	Field Type	Example	
	recordType = 4 (DOT Information)				
1	odometer	Odometer reading at the time of the DOT inspection.	A11		
2	engine	Yes/No indicating whether or not the engine was checked.	N (0-1)		
3	transmission	Yes/No indicating whether or not the transmission was checked.	N (0-1)		
4	clutch	Yes/No indicating whether or not the clutch was checked.	N (0-1)		
5	steering	Yes/No indicating whether or not the steering mechanism was checked.	N (0-1)		
6	horn	Yes/No indicating whether or not the horn was checked.	N (0-1)		
7	windshield	Yes/No indicating whether or not the windshield wipers/washers were checked.	N (0-1)		
8	rearMirrors	Yes/No indicating whether or not the rear view mirrors were checked.	N (0-1)		
9	lightsReflectors	Yes/No indicating whether or not the lights and reflectors were checked.	N (0-1)		
10	parkingBrakes	Yes/No indicating whether or not the parking brakes were checked.	N (0-1)		
11	serviceBrakes	Yes/No indicating whether or not the service brakes were checked.	N (0-1)		
12	tires	Yes/No indicating whether or not the tires were checked.	N (0-1)		
13	wheelsRims	Yes/No indicating whether or not the wheels and rims were checked.	N (0-1)		
14	eEquipment	Yes/No indicating whether or not the emergency equipment was checked.	N (0-1)		
15	ERSat150	Yes/No indicating whether or not the ERS was checked and works from 150 ft. away.	N (0-1)		
16	truckCondition	Yes/No indicating whether or not the overall truck condition is OK.	N (0-1)		
		recordType = 5 (Load Truck)			
1	fromLoadLoc	Load location of unit to unit transfer.	N6		
2	toUnit	Destination of unit to unit transfer.	N1		
3	quantity	Quantity of fuel transferred.	N ±10		
4	compType	Compensation type of fuel.	N (0-9)		
5	decimals	Decimal setting for quantity field.	N (0-2)		
6	dateTime	Date/Time of fuel transfer. yy/mm/dd hh:mm:ss.	A17		
7	fuelType	Fuel type delivered to the vehicle.	A3		
8	transType	Transaction type.	A3		
		recordType = 7 (Rejected Dispatch)			
1	dispatchID	Record ID of dispatch being rejected.	N (1-65535)		

DATA FILES Dispatch File (Dispatch.501)

5151","10/09/09 12:14:52","500","5000","0","0","0","4","A310","- - -","Big Air","LAX","877","Jet A","Gate B33","ORD","N408P","Fuel","A16

Field #	Field Name	Description	Field Type	Example
1	ID	Dispatch ID from office computer.	N (1-65535)	5151
2	deliveryDue	Date and time the delivery is due.	A17	10/09/09 12:14:52
3	totalVolume	Total volume requested by the aircraft.	N ±10	500
4	truckVolume	Volume dispatched to the truck.	N ±10	5000
5	additive	Delivery additive injection indicator.	N (0-1)	0
6	intlExempt	International exempt fuel indicator.	N (0-1)	0
7	status	Status of dispatch record	N1	4
8	aircraftType	Aircraft type being fueled.	A7	A310
9	comment	Comment to associate with the delivery.	A35	
10	customer	Customer name.	A35	Big Air
11	destination	Destination airport code.	A4	LAX
12	flightNumber	Flight number of aircraft being fueled.	A6	877
13	fuelType	Type of fuel to deliver.	A12	Jet A
14	location	Fueling location.	A18	Gate B33
15	origin	Origin airport code.	A4	ORD
16	tail	Tail number of aircraft being fueled.	A7	N408P
17	transType	Type of transaction to perform.	A23	Fuel
18	truckName	Name of truck receiving dispatch record.	A23	A16

DATA FILES Completed Transactions File (CompTran.xml - COMP501.TRN)

<SG501DMS version="v1.xx">

<!--Fueler Logon--> <CompTran> <dateTime>yy/mm/dd hh:mm:ss</dateTime> <truck>xxxx"xxxx</truck> <fueler>xxxxxxxxxxx/fueler> <ownerID>xxx</ownerID> <recordType>x</recordType> <recordType0> <odometer>xxxxxxxx.x</odometer> <unaccounted>xxxxxxxx.x</unaccounted> </recordType0> </CompTran> </SG501DMS>

<SG501DMS version="v1.xx">

```
<!--Fueler Logoff-->
<CompTran>
<dateTime>yy/mm/dd hh:mm:ss</dateTime>
<truck>xxxx"xxxx</truck>
<fueler>xxxxx/truck>
<ownerID>xxxx</ownerID>
<recordType>x</recordType>
<recordType1>
<odometer>xxxxxxxx.x</odometer>
<unaccounted>xxxxxxxx.x</unaccounted>
</recordType1>
</CompTran>
</SG501DMS>
```

<SG501DMS version="v1.xx">

<!--Vehicle Fill--> <CompTran> <dateTime>yy/mm/dd hh:mm:ss</dateTime> <truck">xxxx"xxxxx</truck> <fueler>xxxxxxxxxxxxxxxx/fueler> <ownerID>xxxx</ownerID> <recordType>x</recordType> <recordType3> <transType>xxx</transType> <invoice>xxxxxxxx</invoice> <dispatchID>xxxxx</dispatchID> <account>xxxxxxxxxxx</account> <aircraftType>xxxxxxx </aircraftType> <dispatchedNumber>xxxxxx</dispatchedNumber> <location>xxxxx</location> <fuelType>xxx</fuelType> <additive>x</additive> <flight>xxxxx</flight> <origin>xxxx</origin> <destination>xxxx</destination> <requestedVolume>xxxxxxxx.x</requestedVolume> <meter1GrossStart>xxxxxxxx.x</meter1GrossStart> <meter1GrossEnd>xxxxxxxx.x</meter1GrossEnd> <meter1NetStart>xxxxxxxx.x</meter1NetStart> <meter1NetEnd>xxxxxxxx.x</meter1NetEnd> <meter2GrossStart>xxxxxxxx.x</meter2GrossStart>

DATA FILES Completed Transactions File (COMP501.TRN - CompTran.xml)

<meter2GrossEnd>xxxxxxxx.x</meter2GrossEnd> <meter2NetStart>xxxxxxxx.x</meter2NetStart> <meter2NetEnd>xxxxxxxx.x</meter2NetEnd> <meter3GrossStart>xxxxxxxx.x</meter3GrossStart> <meter3GrossEnd>xxxxxxxx.x</meter3GrossEnd> <meter3NetStart>xxxxxxxx.x</meter3NetStart> <meter3NetEnd>xxxxxxxx.x</meter3NetEnd> <deliveryTotal>xxxxxxxx.x</deliveryTotal> <beginDelivery>mm/dd/yy hh:mm:ss</beginDelivery> <endDelivery>mm/dd/yy hh:mm:ss</endDelivery> <averageTemp>xxxxxx</averageTemp> <maxPressure>xxxxx</maxPressure> <maxPressureRate>xxxxxxxx.x</maxPressureRate> <onRoad>x</onRoad> <misc1>xxxxxxxxxxxxxxxxxxx/misc1> <misc2>xxxxxxxxxxxxxxxxxxxx/misc2> <misc3>xxxxxxxxxxxxxxxxx/misc3> </recordType3> </CompTran> </SG501DMS>

<SG501DMS version="v1.xx">

<!--Load Truck--> <CompTran> <dateTime>yy/mm/dd hh:mm:ss</dateTime> <truck>xxxxxxxx</truck> <fueler>xxxxxxxxxxxxxxxxx/fueler> <ownerID>xxxx</ownerID> <recordType>x</recordType> <recordType5> <fromLoadLoc>xxxxxxxx</fromLoadLoc> <toUnit>xxxxxxxxx</toUnit> <quantity>xxxxxxxx.x</quantity> <transType>xxx</transType> <compType>x</compType> <dateTime>mm/dd/yy hh:mm:ss</dateTime> <fuelType>xxx</fuelType> </recordType5> </CompTran> </SG501DMS>

<SG501DMS version="v1.xx">

<!--File Edit--> <CompTran> <dateTime>yy/mm/dd hh:mm:ss</dateTime> <truck>xxxxxxxx</truck> <fueler>xxxxxxxxxx/fueler> <ownerID>xxxx</ownerID> <recordType>x</recordType> <recordType6> <fileOp>x</fileOp> <node>xxx</node> <fileID>x</fileID> <recordType6> <fileID>x</fileID> <recordType6> </compTran> </SG501DMS>

VERIFY SMTP SERVER COMMUNICATION

To specify a specific SMTP server, the user must provide the SMTP server URL and an allowed sender's email address. The Dispatch application will then connect directly to the SMTP server using TCP and relay the message using the SMTP protocol.

To verify communication between the host computer and the remote SMTP server:

1) Start a Telnet session by using the Telnet command in the following format: telnet <servername> <portnumber>

Press "Enter" after typing each line.

Replace the server name with the IP address or the FQDN of the SMTP server.

Responses may vary slightly depending on the SMTP server version. All versions of the Microsoft SMTP include the term "Microsoft" in the 220 response.

Although the HELO command is permitted, the EHLO verb is supported in all current Microsoft implementations of SMTP. Unless there is a problem using Extended SMTP verbs, the EHLO command is recommended. If the following error message appears after entering any one of the following commands, the SMTP server does not recognize the command: 500 Command not recognized

Confirm the command is correct and verify that communication exists with an SMTP server.

Microsoft Telnet does not permit the Backspace key. To correct a mistake, press "Enter", and then start a new command. In the following steps, Telnet runs from the command line. To open a command line, click "Start", click "Run", type "cmd" in the Open box, then click OK.

If the command was successful, the following response appears: 250

 Enter the following command to tell the receiving SMTP server who the message is from This address can be any SMTP address that you want, but it is a good idea to consider the following issues:

a. Some SMTP mail systems filter messages based on the MAIL FROM: address and may block specific IP addresses unless they recognize the domain where the SMTP mail system resides. In the example, that domain is, If an invalid e-mail address is used, there is no way to determine if the message had a delivery problem, because the non- delivery report (NDR) cannot reach an invalid IP address. If a valid e-mail address is used, the SMTP server returns the following response: 250– MAIL FROM

4) Type the following command to tell the receiving SMTP server whom the message is to. Type the following command with the SMTP address of the recipient: RCPT TO

The server returns the following response:

250 - Recipient

5) Type the following command to tell the SMTP server that data is ready to send: DATA The server responds: 354 Send data. End with CLRF.CLRF

Always use a valid recipient SMTP address in the destination. For example, to send a message to, confirm in the domain. Otherwise, the server returns an NDR.

6) Start typing the 822/2822 section of the message. The user will see this part of the message in their inbox. Type the following command to add a subject line: Subject: test message

Press ENTER two times. The server will not acknowledge this command.

 Type the following command to add message body text: This is a test message you will not see a response from this command. The two ENTER commands comply with Request for Comments (RFC) 822 and 2822. 822 commands must be followed by a blank line.

VERIFY SMTP SERVER COMMUNICATION (CONT'D)

- 8) Type a period (.) at the next blank line, and then press ENTER. The server responds: 250 OK
- 9) Close the connection by typing the following command: QUIT

The server responds: 221 closing connection

10) Verify that the recipient received the message. If error event messages appear in the application event log, or if there are problems receiving the message, check the configuration or the communication to the host.

The "SMTP Server URL" and the "Sender's Email Address" will be specified in the setup dialog.

Dispatch Email Setup	X
SMTP Server URL:	mail.google.com
Sender's Email Address:	admin@lcair.com
Send Dispatch Email?	
ОКС	ancel

ESTABLISHING SETTINGS AND DIRECTORIES

After installing the software, certain FlightConnect Read settings and directories can be adjusted to best suit your operations.

File Conversion Format

Determines which file format FlightConnect Read will convert the transaction files into.

Edit Record Validation Setting

Sets FlightConnect's Record Validation feature. Record Validation allows FlightConnect Edit users to review changes made by DMSs in the field and delete, edit, or accept them into the FlightConnect database. The save setting enables Record Validation. The delete setting disables Record Validation. This feature is not available on Flight Connect LOR600.

Converted Files Target Location

This setting determines where, on the computer, the converted files created by FlightConnect Read are placed.

To edit the ACRead settings and directories:

- Right-click FlightConnect Read short-cut icon on your desktop, then click Properties.
- From the FlightConnect Read Properties window, in the Target text box, specify the additional settings and directories you would like to apply to FlightConnect Read. If no functions are added to the target, the defaults will be activated.
 - 2a. Determine the format of FlightConnect Read file conversions The xml setting will create an Excel file. The CompTran setting will create a text file. The default is CompTran. *This setting overrides the System Definitions setting.*
 - 2b. Activate or deactivate the edit record validation feature (save or del). save saves database changes made by DMSs and collects them for review in the edit record validation feature. del deletes all database changes made by DMSs. The default is delete.

/e:save

2c. Determine the target location of converted files from FlightConnect Read. The default is the destination target selected during software installation. /t:C:\DMS

Example:

C:\DMS\ACRead.exe /f:xml /e:save /t:C:\DMS

3. Click Apply, then OK.

Type in Settings and Directories Carefully

When typing in your settings and directories preferences make sure to (a) put a space before the field, (b) use a forward slash first, (c) use lower case, (d) use a colon, and (e) enter the setting or directory exactly as noted in this manual.



Properties Option - Right-Click FlightConnect Read

ACRead Prop	erties X
Security General	Details Previous Versions Shortcut Compatibility
AC AC	Read
Target type:	Application
Iarget:	C:\DMS\ACRead.exe /f:CompTran /e:save /t:C:\
<u>S</u> tart in:	C:\DMS\
Shortcut key:	None
<u>R</u> un:	Normal window
Comment:	
Open <u>Fi</u> le Lo	cation Change Icon Advanced
	OK Cancel Apply

FlightConnect Read Properties

In the example given, FlightConnect Read will convert files in the C:\DMS folder received from the DMS unit. The files will be converted to xml files and placed back into the C:\DMS folder. Any database files (not transaction files) modified by the DMS will be saved and available for FlightConnect Office users to review in the edit record validation feature.



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