# TABLE OF CONTENTS

## INTRODUCTION

- Software License Agreement ...........................................3
- DBManager Overview .....................................................4
- LC Fueling Systems Overview ...........................................5
- LC Fueling Systems Components ........................................5
- LC Fueling Systems Data Flow ...........................................6

## INSTALLATION & SETUP

- DBManager Installation & Setup Overview ........................10
- Software Installation .....................................................11
- DBManager Setup .........................................................12
- Register File Server Nodes ..............................................14
- Register Application ......................................................14
- Set Master File List .......................................................15
- Set Node List .............................................................16
- LCP Setup ......................................................................17
- Office User Setup .........................................................19

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**Be Prepared**

- 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.
- Failure to follow the instructions set forth in this publication could result in property damage, personal injury, or death from fire and/or explosion, or other hazards that may be associated with this type of equipment.

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**DBManager Overview**

DBManager is a software package that supports Liquid Controls’ (LC) Fueling Systems including DMS Delivery, FlightConnect, and EZConnect. The software package includes three programs: LCP Setup (LCPSetup.exe), DBManager (DBManager.exe), and Office User (OfficeUser.exe).

**LCP Setup**

LCP Setup configures the office computer for wireless communications.

- Wireless communication configuration of office computers.
- Communication test between office computers and the DMS and LCR 600 units.

**DBManager**

DBManager serves as a file server/database manager, managing the master database of the fueling system on the office computer (multiple fueling systems if required) and maintaining the databases of the units (DMS and/or LCR 600) in the network. It determines what database records have been added, edited, or deleted and ensures that the databases on each unit (DMS and/or LCR 600) in the network match the master database. DBManager can be set to automatically update the databases in the network or updates can be made manually. DBManager also provides a window on the PC where users can verify the data transmissions into and out of the server, and it is capable of retaining a log file to troubleshoot any wireless transmission issues that may occur.

- Database management for all DMS and LCR 600 in-cab units in a fueling system
- Database update scheduling

**Office User**

Office User is a security application that configures user access to the fueling system office software including DMS Delivery Office, FlightConnect Office, and EZConnect Office.

- User, password, and access (to office application software databases) setup.

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**Images:**
- LCP Setup configuration window
- DBManager setup window
- Office User setup window
LC Fueling Systems Overview
LC Fueling Systems (Delivery, EZConnect, FlightConnect) are automated data acquisition and management systems designed for specific fueling applications. They acquire metrological and transaction data on fueling vehicles and transmit the data to the office computers.

Main functions of an LC Fueling System include:
• Delivery and transaction data acquisition
• Database management
• Communication configuration and management
• Delivery and transaction data transfer

LC Fueling System Components
METERING SYSTEM
Typically mounted to the back or side of a delivery vehicle, the metering system accurately measures, stops and starts the flow, and preserves the purity of the metered product. A Liquid Controls metering system can include the meter, LCR electronic register, strainer, ETVC (temperature compensation) probe, air eliminator, and control valve.

LC FUELING SOFTWARE
Delivery, EZConnect, FlightConnect Fueling System software can run on a DMS in-cab computer, in conjunction with a LectroCount LCR-II electronic register. The DMS is an in-cab computer with a heavy-duty lap pad interface. The LCR-II compiles metrological data during custody transfers and is Weights & Measures approved. FlightConnect Fueling System software can also run on a LectroCount LCR 600 electronic register. The LCR 600 also compiles metrological data during custody transfers and is Weights & Measures approved.

DATA TRANSFER
LC fueling systems can transfer data via a serial output to a device such as a Wifi adaptor, RF transceiver, or cell modem. Cell modems enable long distance wireless data transmissions between LCR 600s and DMSs in the field and computers in the office. Cell modems and service contracts must be purchased separately from a cellular service provider. RF transceivers are designed for short, line-of-sight wireless transmissions of data. Serial Wifi adaptors can be adapted to an existing Wifi network within the customer framework. Wifi range is typically very limited, but can be used if the Fueling System uploads and downloads data from a location that is Wifi-enabled on the users network. Liquid Controls does not provide Wifi adaptors, however your distributor or IT Professional should be able to recommend one. A USB Flash Memory Device can also be used to transfer data between the DMS and computers in the office.

LC OFFICE SOFTWARE
Delivery Office, EZConnect Office, and FlightConnect Office all contain a suite of programs for managing LC fueling system databases and transferring fueling data files into third-party software.
LC Fueling Systems - Components

**DELIVERY VEHICLE**

**Metering System**
- Metering
- Electronic Temperature Compensation
- Valve Control/Air & Vapor Elimination
- Electronic Registration
- Ticket Printing

**Vehicle Application Software**
- Data Acquisition
- Data Management
- Electronic Registration LCR 600 FlightConnect
- Ticket Printing specialized by application software
- Delivery Stop & Start

**OFFICE**

**DBManager**
- Data Transfer DMS & LCR 600 to office application software
- Database Management

**Office Application Software**
- Data Transfer office application software to back office accounting software
- Database Management

**DATA TRANSFER**
- Wireless
  - RF, Cellular, & Wifi
- Manual
  - USB Memory Drive

**BACK OFFICE**
- Back office ERP or other accounting software
INTRODUCTION - TRANSACTION DATA FLOW

Transaction Data Flow

DMS & LCR 600 FUELING SOFTWARE (DATA CAPTURE)
After each delivery, the LC fueling software compiles the metrological, transaction, customer, driver, and product data into transaction files (.trn). The transaction files are then sent to the office PC either wirelessly (Wifi, RF or cellular), or they are downloaded to a USB memory device (DMS only).

DB MANAGER (DATA TRANSFER)
If the transaction files are sent wirelessly (Wifi, RF, or cellular) using the Send Transactions to Office command, DBManager receives the transaction files (.trn) and notifies the Office Read program that the files have been received. Transmissions can be setup to be sent automatically to the office.

OFFICE READ (FILE CONVERSION)
The office read software (Delivery Read, FlightConnect Read, or EZConnect Read) converts the transaction files (.trn) received from the fueling software into a .csv (text) or .xml file format (Delivery Read typically converts .trn files into text files with a .dat extension). These formats can be used for import into most third-party software programs and spreadsheet applications.

BACK OFFICE SOFTWARE
Back office software refers to any third-party software used for daily bookkeeping. After the office read software converts transaction files into a .csv (text) or .xml file format, the third-party software can import files into its database.

USB Memory Stick Data Transmission (DMS only)
The DMS can transmit files via a USB memory device. If the transaction files are sent via USB memory device, when a shift is finished, the fuelers download the transaction files created during their shift using the Send Transactions to Office command and return the USB device to the office. DBManager is not required for USB data transfers. If the files are transferred via a USB memory device, they must be copied from the USB device and pasted into the C:/DMS folder. From there, Read.exe can convert them into text or XML files.
Database Data Flow

**DBMANAGER (DATABASE MANAGER)**

DBManager serves as a file server/database manager, identifying changes to the master database of the fueling system (multiple fueling systems if required) and maintaining the database of the units (DMS and/or LCR 600) in the network. It determines which master database records have been added, edited, or deleted and adjusts the databases on each unit (DMS and/or LCR 600) in the network to match the master database.

**OFFICE EDIT**

The office edit software (FlightConnect Edit or EZConnect Edit) provides an interface where users can add, delete and edit records in the fueling system master database. It also allows the user to easily import and export files into and out of the database. The office edit software also allows users to validate or reject any records added or edited by the units in the network for the master database.

**OFFICE READ**

When the office read software (FlightConnect Read, or EZConnect Read) receives a transaction file, it converts any records added or edited by the fueler into separate edit file (Editxxx.trn). Office read sends the edit file to the office edit software where it must be validated for the master database or rejected.

**DMS FUELING SOFTWARE**

DMS FlightConnect and EZConnect fueling software allow fuelers to edit or add records, such as new customers and other parameters, while they are in the field. These new records are included in the transaction file and sent to the office where the office read software separates them from the transaction data and send them the office edit software for validation or rejection.
DBManager Installation Overview

PREREQUISITES
Prior to installation of any LC fueling system office software, ensure that all of the fuel delivery systems hardware components are installed. To complete DBManager setup and Office User setup, the office fueling software (Delivery Office, EZConnect Office, FlightConnect Office) must be installed.

DBManager Installation Prerequisites:
1. Setup all LectroCount electronic registers (including calibration), DMS computers, and printers.
2. Install wireless devices for data transmission according to original manufacturers instructions. Not necessary if using USB memory sticks for data transmission.
3. Install the office fueling software (Delivery Office, EZConnect Office, FlightConnect Office).

1. SOFTWARE INSTALLATION
Install the DBManager software suite using the DBManager CD-ROM. Software installation will automatically load the application files (.exe) into a folder (default folder is C:\DMS) and place three shortcuts onto your desktop window: DBManager, Office User Setup, and LCP Setup.

2. DATABASE MANAGEMENT SETUP
After communication between the office PC and the DMSs is confirmed, you will need to setup DBManager on your office PC. DBManager setup is comprised of four steps: Register File Server Nodes, Register Applications, Set Master File List, and Set Node List.

3. LCP SETUP (WIRELESS COMMUNICATION SETUP)
To initiate wireless communication, the office PC, the DMSs and LCR 600s in the network, and the wireless communication devices must be set to the proper communication settings. LCP Setup is a configuration utility for configuring the communication settings for your office PC.

To configure the communication settings of a DMS, the LCP File Server software on the DMS provides settings for wireless communication. Communication settings for the LCR 600 are located in System Setup, Screen 2. For more information about the DMS and LCR 600 communication settings, refer to the setup and operation manuals.

<table>
<thead>
<tr>
<th>Wireless Communication Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>When installing a radio or modem for a LC fueling system, please refer to the manual or documentation provided by the original manufacturer of the device and ensure it is installed and configured properly.</td>
</tr>
</tbody>
</table>

4. OFFICE USER SETUP
Office User is a security access application that allows access to LC fueling system databases (through the office edit software). To setup Office User, users and passwords must be created and assigned to the database (or databases) they will have access to. Office User can be disabled, allowing unrestricted access to the LC fueling system databases.
Software Installation

To install DBManager software, insert the DBManager CD-ROM into your office PC (or click on the the setup.exe file supplied by Liquid Controls). Installation should begin automatically. Follow the DBManager 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.

DBManager 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.

DBManager files loaded into the destination folder:
- DBManager.exe
- LCPSetup.exe
- OfficeUser.exe
- DBMConfigurator.exe
- LCLCP32.dll
- LCLCPF32.dll
- HSSLF32.dll
- dotNetFX40 Client setup.exe
- vcrdits_x86.exe (Microsoft© Visual C++ Redistributable Package)

Shortcuts loaded onto desktop:

LCP Setup
DBManager
DBManager

DBManager is a file server/database manager, managing the master database of the fueling system on the office computer (multiple fueling systems if required) and maintaining the databases of the units (DMS and/or LCR 600) in the network. It determines what database records have been added, edited, or deleted and ensures that the databases on each unit (DMS and/or LCR 600) in the network match the master database. DBManager can be set to automatically update the databases in the network or updates can be made manually. DBManager also provides a window where users can verify data transmissions coming into and out of the server, and it is capable of retaining a log file to troubleshoot any wireless transmission issues that may occur.

DBMANAGER WINDOW

The DBManager window displays a description and time of the data transmissions coming into and out of the server. During day-to-day operation, DBManager will run, without prompting, in the background collecting files from and sending modified records out to the DMS and LCR 600 units in the network.

The Check Files button at the bottom left of the window opens the Check Files window, which contains commands for manually “checking” the database files. When DBManager “checks” files it checks for additions, edits, and deletions in the master database. The databases on the DMS and LCR 600 units are then synchronized with the master database during the next data transmission.

The Setup button opens the Setup Database Manager window.

CHECK FILES

Check files set as “Manual Check”:
- Checks master database files set as “Manual Check” (in Master File List) and updates network databases.

Check all files:
- Checks all master database files and updates network databases.

Check files for selected nodes only:
- Checks all master database files and updates a specific unit database.
DBManager Setup
Setting up the DBManager is comprised of determining what files need to be sent between the computer and DMS and LCR 600 units in the network, where those files should be sent, and when they should be sent.

All settings required for setup are accessed through the DBManager Setup window. After setup is complete, the Setup DBManager window will only be opened on rare occasions such as: adding a node for a new DMS or LCR 600 in the network, registering a new application’s master database, or changing your “check file” schedule.

There are four main steps required to setup the DBManager:

1. **Register File Server Nodes**
   Identify the DMS and LCR 600 units in the fueling system network.

2. **Register Application**
   Locate and identify master database files on the computer and the database files on the DMS and LCR 600 units in the network.

3. **Set Master File List**
   Select the database files for transmission and schedule the checks of the “live files” to find modified files.

4. **Set Node List**
   Select which DMS and LCR 600 units (identified by node numbers) will receive each file.

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**DBManager Setup Window**
All DBManager setup is conducted from the Setup Database Manager window.

- **Number of Handles**
  This value must match the Number of File Handles: in the Setup LCP File Server (1/3) window of each DMS unit in the network. The default value is 1.

- **DBM Node Address**
  The node address assigned to DBManager on the server. This node address is used by the DMS and LCR 600 to connect with DBManager on the server.

  - **Value must match the Office Node Address:** in System Utilities (2/3) of each DMS unit in the network and the DBM Node Address: in System Setup 2 of each LCR 600 in the network.

- **Display File Server Requests**
  If checked, the DBManager window will display the description and time of each transmission coming into and out of the server.

- **Save Screen Location on Exit**
  Saves the location of the DBManager window when the window is closed and reopens the window in the same location. If unchecked, the DBManager window will open in the middle of your primary display screen.

- **Maximum # of entries shown in window (10-1000) (Log Window)**
  The number of data transmissions available in the DBManager window.

- **Save Log to File (Log Window)**
  Creates a log file of all DBManager data transmissions while the box is checked. This is useful for troubleshooting network issues. If unchecked, data transmissions are not recorded. If a log is not needed, leave box unchecked to avoid an enormous log file.

- **Set File (Log Window)**
  Opens a window to set a file path location and save the log file.
REGISTER FILE SERVER NODES
Registering the file server nodes in the network entails identifying the node of each DMS and LCR 600 in the fueling system and entering them into DBManager.

To register the DMS and LCR 600 units in DBManager:
1. Click the DBManager icon.
2. From the Database Manager window, click Setup.
3. From the Setup Database Manager window, under Registered File Server Nodes, click Add.
4. In the Register New Node window, type a name for the DMS or LCR 600 in the Node Name: field. (ex: Truck 1)
5. If setting up a cellular network, enter the IP address of the modem connected to the unit in the Node IP Address: field. If using serial communication, this field should be set to 0.0.0.0.
6. In the Node Number: field, enter the node of the unit.
7. Repeat steps 3-6 until each DMS and LCR 600 in the fueling network is registered.

REGISTER APPLICATION
Registering applications on DBManager entails mapping the file path to the master database on the computer and the databases on the DMS and LCR 600 units in the network.

To register the application in DBManager:
1. From the Setup Database Manager window, under Registered Applications, click Add.
2. From the Add Application window, enter a name for the application network in the Application Name: field.
3. From the Add Application window, click the small folder icon to the right of the Path of Master Files on Office PC field and, in the Browse for Master Files Folder window navigate to the folder where the master database files are saved. The file path can also be entered into the field manually.
4. From the Add Application window, enter the file path of the databases on the DMS and LCR 600 units. See note below.

File paths are set in the Office Path: field in the System Utilities (2/3) window on the DMS and the Office Path: field in FlightConnect Setup on the LCR 600. The DMS file path should be C:\DMS. The LCR 600 file path should be A:\.
Setting the Master File List entails selecting which set of master database files will be checked for additions and edits and scheduling the frequency of the checks.

**To set the Master File List in DBManager:**

1. From the Setup Database Manager window, under Registered Applications, click **Set Master File List**.
2. From the Master File List window, click **Add**.
3. From the Add File window, highlight the files to be checked for modifications and sent (if modifications are found) to the other databases in the network. These files will have file extension .500, .501, .502, or .slf. Click **OK**.

   Checking the Copy added files to the nodes box will update the database files of the selected nodes (DMS and LCR 600 units) in the network according to the master database files. Only select this option if the DMS and LCR 600 units already have these files loaded.

4. In the Master File List window, highlight a file (or files) for scheduling. From the **Set Checking Frequency for Selected** drop-down box, select **Weekly**, **Periodic**, **Manual Check**, or **Never**.

   Selecting **Weekly** will open the Weekly Check window. Selecting **Periodically** opens the Periodically Check window. **Manual Check** and **Never** will not schedule any automatic checks.

5. If **Weekly** or **Periodically** is selected, the Weekly Check or Periodically Check window appears, fill out the fields in the window to your preference. Click **OK**.

6. If **Manual** is selected, files must be checked using the Check Files option from the Database Manager window.
SET NODE LIST
Setting the node list designates which nodes (DMS and LCR 600) will receive database updates from the selected master database.

To set a Node List in DBManager:
1. From the Setup Database Manager window, under Registered Applications, highlight a Registered Application from the list and click Set Node List.
   
   A Set Node List button is also available in the Master File List window. Nodes set in the Master File List window will be assigned to the application selected when the Master File List window was opened.

2. From the Node List window, click Add.

3. From the Add Node window, Highlight the nodes that will receive database updates from the selected application’s database and click OK.

   These steps must be performed in precise order to properly register a node.

Load Master Files to Selected Nodes
Checking the Load Master Files to Selected Nodes box will update the database files of the selected nodes (DMS and LCR 600 units) with the master database files. Typically, this option is reserved for DMS units that already have the database loaded and are being added into DBManager.

Do not select this option if these files are already loaded the DMS and LCR 600 units.

If master files are loaded onto selected nodes that already have files loaded, go into C:\DMS\node name\master database name and delete the files.
LCP Setup

LCP Setup sets up the communication link at your PC or server in the office, configuring the office computer for wireless communication. LCP Setup contains settings for IP configurations (WiFi and cellular) and serial configurations (radio and direct serial cable). For successful data transmission, the settings in LCP Setup must be configured to match the communication settings of the DMSs, LCR 600s, and wireless transmission devices in the LC fueling network. LCP Setup includes a Test tab, where connection between the computer and a specific DMS or LCR 600 (or another computer) can be tested.

LCP SETUP CONFIGURATION

Retries:
After an initial failed attempt, the number of attempts the computer will try to make a connection with the wireless communication network before timing out. (1 is the default value)

Timeout (ms):
The amount of time the computer will wait for a response once a signal is sent to a wireless network, before timing out. (2000 is the default value).

IP Config:
Clicking the button activates IP Configuration settings.

Serial Config:
Clicking the button activates Serial Configuration settings.

Local IP Port:
A port where TCP/IP communication can be heard. To get around existing firewalls, your office PC will need to be configured so that TCP data is accepted at this port number.

Network Node:
The LCP network node number of the device the computer is communicating with. 1-255 range

Network IP Address:
The IP address of the device the computer is communicating with, using TCP/IP protocol

Network IP Port:
The IP port number of the device the computer is communicating with, using TCP/IP protocol

Port Name:
The computer’s serial communication port the data communication device is connected to.

TX Enable:
The setting for the serial signal transmit and receive handshake technique to the data communication device. None is the default setting.

None • IRTS • RTS • IDTR • DTR • IRTSIDTR • RTSDTR

Baud:
The communication speed. This value should match the wireless device. 57600 is the standard communication speed, but check your wireless device specifications to ensure the proper selection.

115200 • 57600 • 19200 • 9600 • 4800 • 2400

Cancel
Closes the window without saving.

Save
Saves settings that appear in the window.

Done
Saves settings that appear in the window and closes the window.
LCP SETUP TEST

Node:
The unique node address for the DMS or LCR 600 which will be tested for communication. This is the node address used by DBManager (Liquid Controls’ database management software for the office computer) to identify the units in the fueling system network. This field value must be unique among units in the network and have a matching Node # in the Registered Files Server Nodes of the DBManager.

IP Config:
Clicking the button activates IP Configuration settings.

Serial Config:
Clicking the button activates Serial Configuration settings.

Target IP Address:
The IP address of the device the computer is communicating with, using TCP/IP protocol

Target IP Port:
The IP port number of the device the computer is communicating with, using TCP/IP protocol

Test
Sends signal to test communication with a specific DMS or LCR 600 unit—set to the Node: setting—in the network.

- When testing communication with a DMS, ensure the LCP File Server is running.
- DBManager must be closed when testing communication with LCP Setup.

Done
Saves settings that appear in the window and closes the window.

When testing communication with a DMS, ensure the LCP File Server is running.
DBManager must be closed when testing communication with LCP Setup.
Office User Setup
Office User Rights is an optional application used to define users and passwords, and database access via office edit software (EZConnect Edit and FlightConnect Edit). To hide and restrict access, there is no desktop shortcut for Office User. The Office User application is located in the folder where the DBManager software suite was installed (typically C:\ DMS).

To set up office user rights:

1. Navigate to the folder where the DBManager software suite is installed, and click the OfficeUser.exe file.
2. From the Office User window, click New User ID.
3. From the Create a New User ID window type in an ID into the User ID text box, type a password in the Password text box, and click OK.
4. From the Add Database Privileges window, perform one of the following, and click Add
   4a. Click Select All to allow user access to all the listed databases.
   4b. Click on individual databases to allow user access to selected databases.
5. Click Add.
6. To exit the Office User window, click OK.

EDITING EXISTING USERS
Office User provides commands to edit existing users: Change Password, Add Database, Delete Database, and Delete User ID.

DISABLING OFFICE USER
Office User can be disabled. If it is disabled, access to the office edit software is unrestricted

To disable Office User:

1. Navigate to folder where the DBManager software suite is installed (typically C:\DMS)
2. Delete the User.slf file.