



System Description

FireStream's Symbology Mobile Fuel Wizard

FireStream's Symbology Mobile Fuel Wizard interfaces with popular accounting packages and third party billing programs.

FireStream's Symbology Mobile Fuel Wizard™ has three components:

- A database and reporting program with the NetLink™ export interface engine that runs on a PC in the office.
- A PC-based network server that manages the flow of information between the office computer and delivery trucks.
- An operations control and accounting package on the Symbol MC9060G/S hand-held device that interfaces to the LCR-II(s) and manages the RF link between the truck and the central office.

Database and Reporting Program

A database and reporting program stores information about clients, their vehicles or tanks, and your drivers and trucks in a Microsoft Access database. The program has an intuitive user interface that makes it easy to enter and maintain the information in the data tables. It also receives transaction data from the trucks.

A number of standard reports help you manage the fuel delivery process. Daily, weekly and monthly client delivery reports, shift summaries and route productivity reports are included in the base package. In addition, the use of industry-standard Access database tables makes it easy to design custom reports.

The database and reporting program incorporates an export facility, NetLink™, that makes the transaction data collected on the trucks readily available to accounting programs and many of the card network providers. FireStream's Symbology Mobile Fuel Wizard interfaces with several of the more popular accounting packages and third party billing programs. Bill of Lading information and driver activity is also available as input to accounts payable and payroll systems.

Network Server

The network server program on the PC manages the flow of information between the reporting program and the truck computers. The data is

sent through a network bridge using Symbol's, IEEE 802.11B Standard, Spectrum24™ wireless networking protocols. When a truck contacts the server program, the transactions from the truck are placed in an inbox for the report program to process. Changed or edited database tables or new programs are sent to the truck. The server can communicate with multiple trucks at the same time.

Hand-Held Computer

The driver's hand-held computer communicates to the office PC and to the DM2200 Wireless Modem using Symbol's 802.11B wireless networking technology, a robust and reliable communications system installed in thousands of locations around the world.

In addition to its RF communications functions, the DM2200 interfaces to the Liquid Controls LCR-II register(s) and stores information about fueling activities. The DM2200 also provides the GPS and WAN functions of the system.

The software prompts the driver to record Bill of Lading information while loading the delivery truck. The driver can display the amount, type of fuel and BOL number(s) in each compartment at anytime. At the client location, the truck computer prompts the driver for a client number and purchase or sales order, if required. The software then prompts for a vehicle ID and verifies it is valid. If the ID is valid, the system checks to make sure the proper fuel is being pumped for this vehicle and then opens the security valve to allow fueling.

If the client requires odometer readings, fueling will not proceed without entering an odometer or hour meter reading. The driver can easily add a vehicle ID for a client on his route, and the information is included on the client receipt, uploaded to the office PC and reported on an exception report at the end of the shift. The truck computer can manage multiple meters and compartments via the single hand-held computer.



The software in the hand-held computer provides the interface to the DM2200 and collects information about fueling activities. The scanner is used to read the vehicle or tank barcode label, enter odometer and purchase order information, and to display status and prompts for the driver.

The amount of fuel being pumped and the number of vehicles serviced are continuously displayed on the scanner so the driver can monitor his progress. If the driver attempts to quit fueling before all vehicles have been serviced, a warning sounds and a message is displayed indicating how

many unfilled vehicles remain. The driver can then request to see the vehicle ID's that have not been serviced. When the driver finishes, a Weights and Measures Certified Delivery Receipt prints, showing the amount of fuel pumped by vehicle type and fuel type, as well as any unfilled vehicles.

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