

# B2B Commercial Fuel Management

Integrated fuel and fleet management



- ✓ Wireless
- ✓ Automated
- ✓ Fuel control & recording



# Complete **control** of your home based refueling depot

Gilbarco Veeder-Root's B2B Commercial Solutions deliver end-to-end coverage of home base fuel sites, providing an expanded solution from the site to the head office, offering fleet managers the power & flexibility to manage their sites, control distribution, & monitor fuel levels.

Our B2B Commercial Wetstock and Site Management Solutions are robust, stable, and modular, ensuring that all transactions are recorded.

## Addressing your B2B Commercial needs



### Customers with home based fuel depots

- Integrates data from varied sources.
- Prevents theft and records any variations to notify users.
- Easy to use, getting info is intuitive, exporting is key.
- Service and support



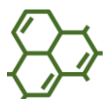
### Oil Companies selling fuel

- Modular design provides for scalable and cost effective deployment.
- Provides visibility of stock in tank and deliveries.
- Service and support



### Facilities management companies selling fuel

- Integrates data from varied sources.
- Prevents theft and records any variations to notify users.
- Easy to use, getting info is intuitive, exporting is key.
- Service and support



**An automation solution for every commercial home based refueling depot architecture**

**Our B2B Commercial Fuel Management solutions provide significant fuel cost savings and operational benefits.**

Regardless of the fueling method and authorisation requirements, commercial fleets with home based refueling depots, oil companies and facilities management companies selling fuel can remotely manage all of their sites and gain maximized control over fuel inventory and delivery.

# Scalable solutions

To grow with your business



## Scalable

End-to-end, yet scalable solution from the head office to the homebase. Supports versatile fueling authorisation methods such as RFID, MiFare, user codes and NFC identification.



## Control

Provides tight control of fuel usage and alerts on irregular fuel consumption reducing expenses, misuse, and losses.



## Flexible

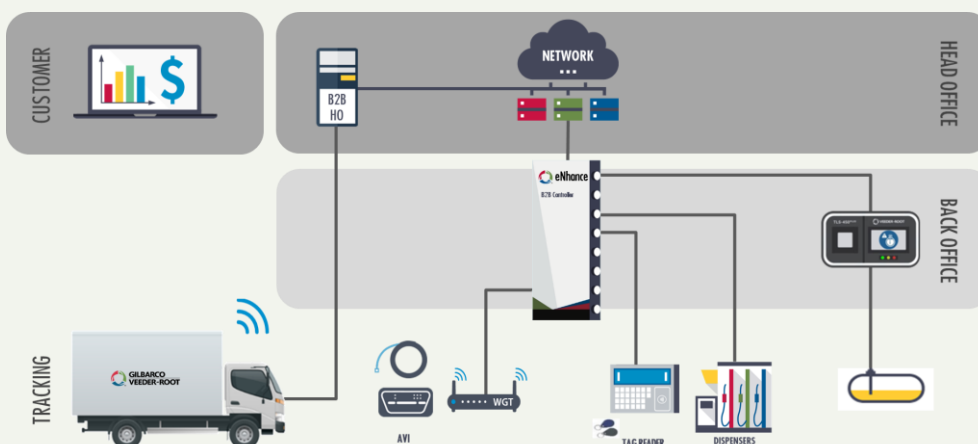
Flexible deployment with any fixed site architecture, types of dispensers, ATGs, and other equipment. Integrates with various types of electronic dispensers for maximum fuel savings.



## Robust

Centred around our robust B2 Commercial controller, eNhanceOne, for site automation and fueling authorisation. eNhanceOne is a highly durable and field-proven controller in severe weather, harsh environments and extreme climates.

## Solution Architecture



Build your own solution 

### Core Components

eNhanceOne Site Controller  
Automatic Tank Gauging  
Dispenser

### Token Reader Options

RFID | MiFare | NFC

### Token Options

RFID Vehicle Units  
MiFare Tags | NFC Sticker



## Introduce **tight control** over commercial site dispensing

- ✓ Reduces fuel and operational costs, losses, and ensures optimal fuel distribution.
- ✓ Automated operations with real-time insight on station, fleet and fuel status.
- ✓ Complete control of fuel usage while reducing fuel expenses, misuse, and losses.
- ✓ Sends alerts on unusual behaviour and fuel consumption.
- ✓ Flexible and scalable deployment, as well as straightforward interfaces with third-party applications.



### Features

- Wireless communication
- Intelligent power management
- Integrated asset NFC, MIFARE or RFID recognition
- Scalable solutions to grow with your needs
- Offers complete forecourt automation and flexible fuelling authorisation capabilities



### Benefits

- Reduces fuel and operational costs, losses, and ensures optimal fuel distribution.
- Comprehensive fuel management, with automated operations and real-time insight on station, fleet and fuel status.
- Complete control of fuel usage while reducing fuel expenses, misuse, and losses.
- Flexible and scalable deployment, as well as straightforward interfaces with third-party applications.

## Choose your level of **site control**.



### Near Field Communication

Automated, Near-Field-Communication system to enable fuel fill-ups at home-base stations (Pre-fill).



### MiFare Pay-at-the-Pump

Automated, MiFare Tag and Tag Pay-at-the-Pump system to enable fuel fill-ups at home-base stations (Pre-fill)



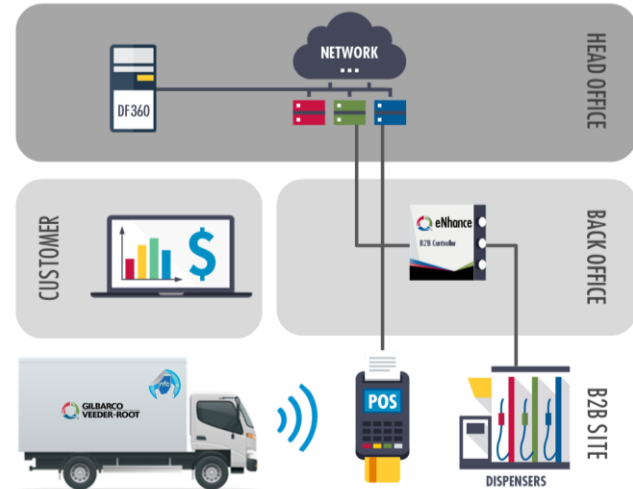
### RFID AVI Refueling

Automated, RFID Automatic Vehicle Identification system to enable fuel fill-ups at home-base stations (Pre-fill)

# You choose your level of site control

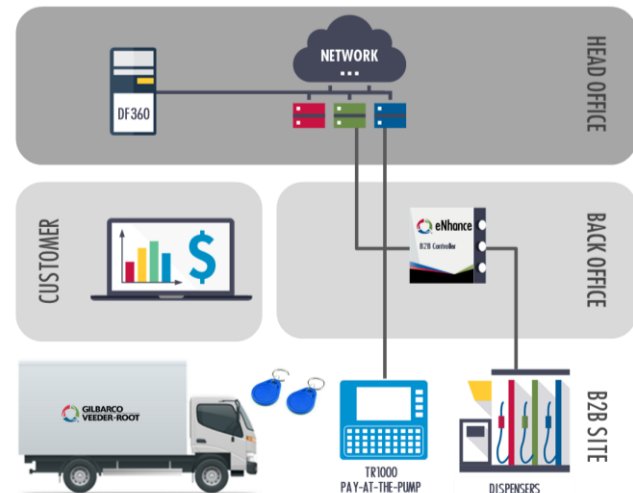
## Option 1: Near Field Communication (NFC)

- Vehicle arrives at site
- Site attendant uses android mobile device to start the transaction
- Selects refuelling transaction from fuelling application
  - Reads windscreen NFC Tag
  - Reads the pump NFC Tag
  - Taps his attendant NFC Tag
  - Inputs Odometer
  - Requests authorisation from eMpower online authorisation server (Vehicle rule checks, Fleet rule checks)
  - Authorisation approved
  - Notifies attendant & dataFLEX360 server
- Attendant lifts nozzle, pump calls eMpower
- If authorised, pump activates and dispenses
- Transaction concluded and posted
- Transaction available to Customer



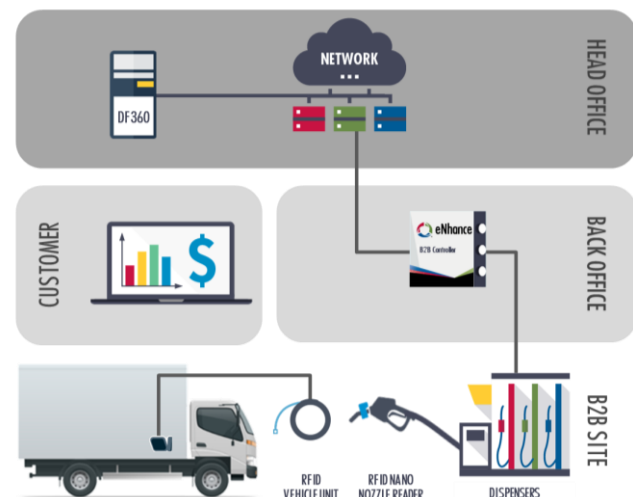
## Option 1: MiFare Pay-at-the-Pump

- Vehicle arrives at site
- Site attendant uses TR1000 pay-at-the-pump reader to start the transaction
- Picks up nozzle and inserts into vehicle
  - Presents vehicle MIFARE Tag
  - Presents attendant MIFARE Tag
  - Inputs Odometer
  - Requests authorisation from eMpower online authorisation server (Vehicle rule checks, Fleet rule checks)
  - Authorisation approved
  - Notifies attendant & dataFLEX360 server
  - Refuelling starts
- Attendant lifts nozzle, pump calls eMpower
- If authorised, pump activates and dispenses
- Transaction concluded and posted
- Transaction available to Customer



## Option 3: RFID Automatic Vehicle Identification

- Vehicle arrives at site
- Site attendant uses RFID NanoNozzle reader to start the transaction
- Picks up nozzle and inserts into vehicle with RFID Vehicle Device
  - Presents attendant MIFARE Tag
  - Inputs Odometer
  - Requests authorisation from eMpower online authorisation server
  - (Vehicle rule checks, Fleet rule checks)
  - Authorisation approved
  - Notifies attendant & dataFLEX360 server
  - Refuelling starts
- Attendant lifts nozzle, pump calls eMpower
- If authorised, pump activates and dispenses
- Transaction concluded and posted
- Transaction available to Customer



# Take control of your wet stock

For commercial refueling and home based depots



**Monitor tank levels in near-real time, with automated alarm management**

- ATG records product and water levels
- Multiple high level, low level and water level alarms available
- On device screen can be used to read information on site
- Electronic communication to dataFLEX360 allows for active data
- Eliminates risk of free water contamination
- Automated alarms for low or high levels
- Automated alarms for delivery stock levels



A choice of brands to suit your requirements



## **Veeder-Root Automatic Tank Gauges:**

- High quality, high reliability for multiple tanks and products
- TLS4, TLS4B or TLS450 Automatic Tank Gauges available, depending on the amount of tanks and probes
- Provides an electronic snap shot of tank volumes and quality
- Remote access and alarm facility – water content, low product, overfills

## **FAFNIR Level Measurement Solutions:**

- Economically Attractive, low-cost commissioning and connection
- Dependable, flexible and maintenance-free use for all fuels common in trade



# dataFLEX360

## Actionable insight.

### Integrated fuel management reporting.

Accurate, reliable, relevant and near real-time reporting is a critical success factor in delivering true value to our customers. dataFLEX360 is Gilbarco Veeder-Root's integrated fuel and fleet reporting platform, providing easy to use reporting dashboards for all your commercial and industrial fuel management reporting needs.



## Why dataFLEX360 is right for you

**dataFLEX360** is a web based, cloud hosted reporting platform. The benefit of this for our customers is that there is no significant investment in IT infrastructure at each site to collect transactions and generate reports.

All fuel transactions are delivered to the **dataFLEX360** platform through our on-site eNhanOne controllers in near real-time, with transactions appearing on the dataFLEX360 dashboards within 15 minutes of the actual event taking place on-site. The **dataFLEX360** platform has also been developed using an open architecture model.

**dataFLEX360** allows for seamless integration with OEM telematics data being generated by the HME category of assets, connecting to OEM platforms and extracting relevant fleet information to integrate into reporting.

**dataFLEX360** creates a single view of information across your commercial and industrial fuel and fleet operations.

## Get a 360° view of all your sites



From your tanks and fleet vehicles to the head office.

- ✓ Reliable
- ✓ Accurate
- ✓ Near real-time insight
- ✓ Integrated fuel & fleet reporting

# Solution Components

The components of the Commercial B2B Fuel Management Solution are as follows:



## eNhanOne Controller

- Low-cost, B2N site controller
- Wireless communication
- Intelligent power management
- Integrated asset NFC, MIFARE or RFID recognition
- Scalable solutions to grow with Customer needs
- Offers complete forecourt automation and flexible fuelling authorisation capabilities



## Veeder-Root Automatic Tank Gauges

- TLS4, TLS4B or TLS450 depending on number of probes required provides electronic snap shot of tank volumes and quality
- High quality, high reliability for multiple tanks and products
- Alarm facility – water content, low product, overfills
- Custom alarms – pre-programmed alarm alerts provide scenario-specific information to predetermined individuals to increase efficiency



## FAFNIR Commercial VISY-Command

- Up to 3 different VISY sensors can be connected to one terminal by a common cable
- Highly flexible thanks to modular architecture
- Easy configuration
- Wireless communication of VISY-Command RF or VISY-Stick
- Maintenance-free
- Wireless link with long battery life



## FAFNIR Commercial VISY-Stick

- Level and environmental sensor based on magnetostrictive measuring principle
- High precision volume and leakage monitoring.
- Sensor electronics transmit current pulses through the wire, which generate a circular magnetic field and which is converted into electrical signal.
- Up to 22m tall tank probe available



## RFID Nozzle Reader

- Self contained wireless compact transponder with Innovative 'grip' mechanism
- Battery life 2-3 years, field replaceable
- LED indication, e
- Extremely durable and reliable
- Effective removal protection / Tamper detect
- Fits any nozzle type, holster and vehicle inlets



## RFID Vehicle Units

- An RFID device installed near the fuel inlet
- Includes secure payment data
- Removal protection mechanism
- Passive device – no power needed
- 'Ring' or 'Cube' form factor
- Easy to install, fits any vehicle



## TR1000 Pay-At-The-Pump Terminal

- Durable cost-effective outdoor payment terminal reader for fuelling authorization and fleet fuel purchases.
- Installed directly onto the dispenser or wall mounted
- Attended and unattended activities.
- Simple to use with colour display, full alphanumeric keyboard, and addressable screen keys
- Fully integrated with commercial automation solution



## MiFare Passive Tags

- Reader sends signal to the tag using an antenna.
- Tag receives this information and resends this information along with the information in its memory.
- Reader receives this signal and transmits to the processor for further processing.
- Limited control



## NFC App, Device and Stickers

- Android App reads the vehicle, pump and attendant NFC
- Captures vehicle odometer and movement number.
- Fuel attendant activates refuelling application
- Fuel attendant selects – Refuel Vehicle
- Taps windscreen NFC > Taps pump NFC > Taps attendant NFC
- Manually enter odometer reading
- Transaction is passed to the authorisation platform.
- If authorised, attendant receives notification on app.



## AccuTrip+ (Add-On)

- Independent GPS odometer reading and vibration activated hour meter
- Independent 2 wire installation ensure the unit can be installed on any vehicle or asset without voiding OEM warranties
- Full trip logging with breadcrumb reporting, recording active and idle time
- Over-the-air (OTA) meter reset capability
- Accurate vehicle readings independent of vehicle factors



# Commercial B2B

## Integrated fuel and fleet management solution.



Find out how your site could benefit from 360° insight.

Email: [GVR-mea-enquiries@gilbarco.com](mailto:GVR-mea-enquiries@gilbarco.com)

[www.gilbarco.com/mea](http://www.gilbarco.com/mea)

