



A GUIDE TO
SUCCESSFUL
FORECOURT
RECONCILIATION

FOR THE SITE MANAGER



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FOREWARD

Introduction

Site managers face many challenges on a daily basis – From balancing inventory from tanks to reconciling sales and calculating deliveries, retail forecourts demand effective management practices. How do we juggle all these time-consuming tasks whilst maintaining a streamlined forecourt and control over our wetstock and site operations?

This eBook explores all aspects of the modern site manager's forecourt operations and the importance of reconciliation of wet stock and site activities. It also investigates where, how and why fuel losses occur, the effect of these losses on your bottom line and reconciliation endeavours and provides steps to address the inconsistencies of your wet stock and site operations..

We specifically explore the forecourt architecture and provide tools and tips to reconcile variances through manual and automated solutions, as well as provide our recommendations for effective wetstock and site control practices.

Credits

A Guide to Forecourt Reconciliation for the Site Manager has been made possible by extensive research conducted by the Gilbarco Veeder-Root Group of Companies:

Veeder-Root

[Detecting and Reducing Fuel Loss eBook](#)

[Methods of Leak Detection for Underground Storage Tanks](#)

Insite 360 (The analytics business unit of Gilbarco Veeder-Root):

[Analysis of today's approaches for fuel invoice and inventory reconciliation White Paper](#)

DOMS

[DOMS Use Cases](#)

Gilbarco Veeder-Root (Middle East and Africa):

[LIGO Playbook](#)



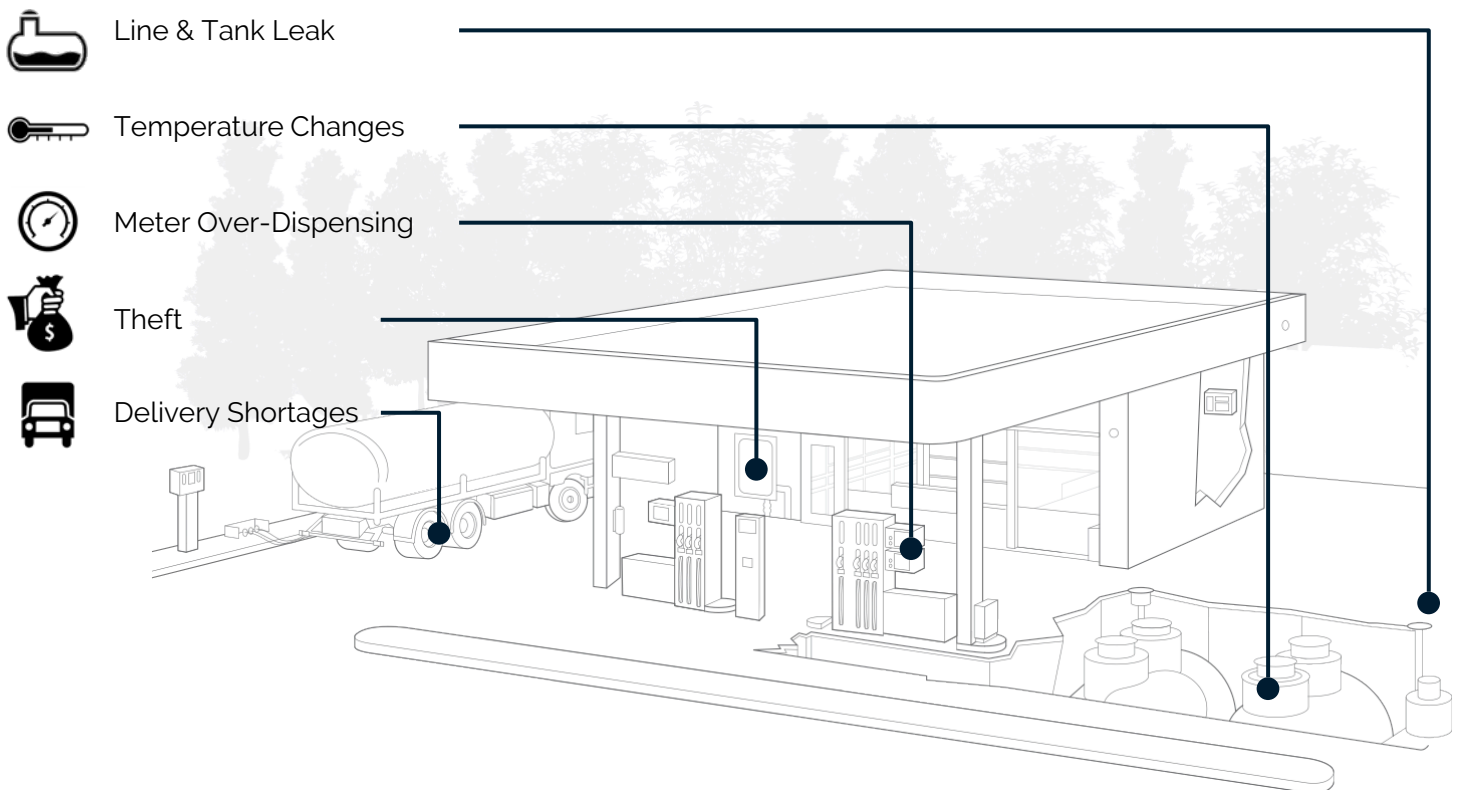
CHAPTER ONE

FUEL LOSSES

THE SOURCES OF FUEL LOSS

Where do fuel losses occur?

Tank calibration, delivery shortages and temperature changes have the largest impact on variance whilst meter over-dispensing presents the most immediate savings.



Veeder-Root identified the 5 primary sources of physical fuel losses as follows:

- > Delivery Discrepancy
- > Evaporation / Temperature Loss
- > Theft
- > Storage Tank Leaks
- > Meter Drift

But how are these fuel losses relevant to the site manager or forecourt owner and what can you do to address the losses?



Delivery Discrepancy

Do you know if all the fuel in the delivery truck made its way into your storage tank? What is your process for confirming bill-of-lading accuracy? Protecting your fuel assets to ensure you're getting what you pay for is crucial for reducing fuel loss from delivery discrepancy. So how do you ensure there is an accurate record of delivery data to reduce loss?

Automatic Tank Gauging systems have become a staple for every fuel site operator. Not only does it facilitate easy fuel ordering by providing real-time details of delivery start and end times which is crucial to effectively address delivery discrepancies, it also eliminates dipstick reading errors.



Review the differences between ATG models here.



PRODUCT RECOMMENDATION: [Veeder-Root TLS 4B](#) | Up to 6 Mag Plus / Mag-FLEX probes | Delivery detection & reporting



Loss of Temperature

Fuel expands or contracts depending on temperature. This can occur both in the delivery truck and the underground storage tank. If it is cold outside, the fuel could contract in the truck before delivery occurs, causing a variance between the actual delivery and the bill of lading. Alternatively, if the outside temperature is warmer than the temperature below ground, as is expected from the warm African sun and scorching desert, a fuel delivery may contract inside your tank, resulting in the appearance of loss without any delivery discrepancy. That means you've lost fuel without any wrongdoing which makes matters even worse.

The only way to address this discrepancy effectively is by deploying **Automatic Tank Gauging systems** with **probes** as they help site owners to understand variances caused by temperature, helps to avoid manual reconciliation errors and assists with automated level measurement and management.



PRODUCT RECOMMENDATION: [Magnetostrictive Probes](#) | Measure liquid temperature | View, and manage on ATG



Theft

Theft detection is probably the most sobering reality for a forecourt owner. From dispenser tampering to fuel missing from delivery trucks—thief eats away at your profits. Thieves can be creative and often find ways to siphon fuel straight from underground storage tanks, bypass dispenser meters and drive off the forecourt before paying. With so many anti-theft products in the market today, how does a site owner distinguish between what is needed and what is “nice-to-have”?

The most favoured application to prevent theft is the installation of a forecourt controller. Not only can these types of technologies address theft through attendant tagging, **preventing drive-off thefts** and inventory management, they are capable of hosting an array of applications which interface through HIM's (Hardware Interface Modules). Dispenser Control, Wetstock Control, Attendant Tagging, Automatic Vehicle Identification and IFSF Car Wash modules are but a few of the applications available on the DOMS Forecourt Controller for example.

Not only does scalable technologies open a wide range of options for future expansion of your site, it's also a cost saving for site owners starting their journey to full site automation as the technology can be upgraded with additional HIM'S as and when the functionality becomes required.



PRODUCT RECOMMENDATION: [DOMS PSS 5000](#) | Central command | Attendant tagging | Pump Control | Wetstock Control



Meter Drift

You rely on your fuel meters to accurately measure and charge for the amount dispensed, but normal wear and tear can impact these meters, prohibiting them from performing accurately between calibrations. With the growing number of contaminants from today's cleaner fuels, recalibration and maintenance are needed more frequently, compromising the accuracy of your meters and likely giving customers more or less fuel than they have paid for.

Always ensure that your onsite equipment is maintained to provide accurate information. Automation software and processes alone will not be able to give you the insights you need when the technology is faulty.



Storage Tank Leaks

Storage tank leaks are likely the most straightforward source of fuel loss, but also the most urgent. Aside from the hazardous environmental and regulatory repercussions of a storage tank leak, profits also take a hit when a leak is present. Fortunately, there are a variety of solutions available to detect and prevent storage tank leaks, from automatic tank gauges to alarm management services.

Although Environmental Protection Regulations differ from country to country, the United States Environmental Protection Agency provides a comprehensive overview of UST (Underground Storage Tanks) regulations and requirements to prevent leaks and releases in the United States of America.

Veeder-Root has summarised the **UST requirements for the USA** in their piece on the **7 Methods of Leak Detection** which indicates that an Automatic Tank Gauge (ATG) system is your first point of call to address storage tank leaks. It provides highly accurate inventory measurements combined with the tracking of delivery and dispensing activities.

It is very important to note that any one method of release detection has the potential to miss an event, or its magnitude, if solely relied upon. It is best practice to build a system with multiple release detection methods incorporated and managed through the Automatic Tank Gauge.

Regulations may differ in your region and it is advised that you contact your local agency to ensure that you are meeting all requirements.



PRODUCT RECOMMENDATION: [Veeder-Root TLS 4B](#) | Up to 6 Mag Plus / Mag-FLEX probes | Delivery detection & reporting



HOW MUCH IS IT COSTING YOU?

What does each litre lost really cost you?



Let's assume you pay **\$1** per litre



And the average margin is **17,1%**



If that litre is lost or stolen, you need the margin from **17,1 other litres** to make up the \$1 lost.



What if you lose **250 litres?**



You need to sell **4275 litres** to make up the cost...



The first step in addressing fuel losses is understanding the **extent of your losses** and calculating your **variance**. This will help you to calculate the amount that you could be saving by eliminating unnecessary fuel losses.



CHAPTER TWO

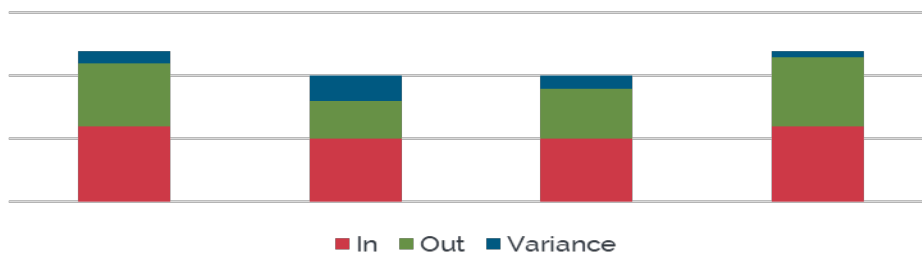
VARIANCES

THE IMPORTANCE OF VARIANCE



What is variance?

A fuel variance is the difference between the amount of fuel available in a tank at any given time, according to recorded deliveries and sales, and the actual amount of fuel available in the tank. Fuel variances can be positive or negative. – [Veeder-Root, USA](#)



Acceptable Industry Tolerance for variance is 0,5%

There are two overarching sources of variance: **physical fuel** loss that happens during incidents within a fueling system, or **adjusted losses** due to poor or inaccurate data. Variances caused by physical fuel loss are a loss of inventory which can have a major impact on a retail fueler's profitability, and depending on the exact cause could result in fines or notice of violation.

Alternatively, variances caused by accounting errors can create additional liabilities and tax implications for a business, all while masking real fuel losses.. Identifying and minimizing all sources of variance within a fueling operation clarifies a company's inventory, compliance, and financial status at any given time, drives down its liabilities, and eliminates waste.



How much can you save by lowering variance?

Let's assume that you pay **\$1,00 a litre**, and that your site throughput averages **375 000 litres per month**. If your starting variance was just **3% of sales** and you were able to lower it to 0.5%, you could save over **\$112,500 per year**. For a convenience store chain with 50 fueling sites, similar costs and average store throughput, that same reduction in variance could mean over \$5,625 million dollars in savings.

SEE HOW MUCH YOU COULD BE SAVING WITH OUR ROI CALCULATOR

ROI CALCULATOR



CHAPTER THREE

RECONCILIATION

THE ROLE OF RECONCILIATION

The Backbone of Forecourt Management

What influence does the lack of proper reconciliation processes have on the profitability of your forecourt and what steps can be taken to address this?

The process of reconciliation is derived from financial accounting practices. In financial terms, reconciliation is an accounting process that uses two sets of records to ensure figures are correct and in agreement. As an example, it confirms whether the money leaving an account matches the amount that's been spent, and ensures the two are balanced at the end of the recording period.

Unfortunately, accounting for fuel is unlike any other product. In fuel management, reconciliation requires tight control over variances such as delivery variances, meter variances and other unaccounted variances.

A White Paper from Veeder-Root addresses the **analysis of today's approaches for fuel invoice and inventory reconciliation** and covers the topic of invoice reconciliation in detail. Notably they say the following:

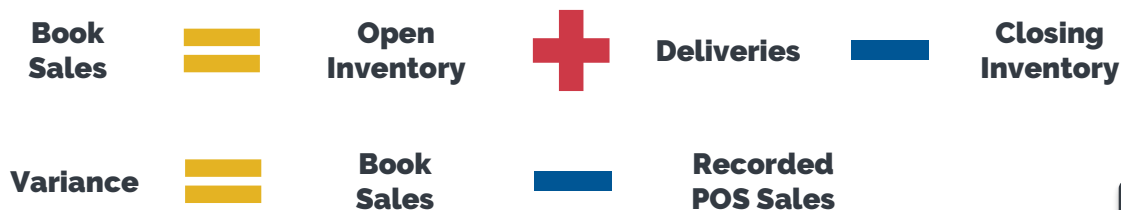
"There are numerous reasons why a fuel invoice does not easily reconcile to a delivery and includes factors such as fuel temperature variations, improperly calibrated tanks, cross drops, carrier theft or error, inconsistent manual dips, changing tax rates and rules, and more. Reconciliation is not a onetime event for a fuel purchase; it is actually an ongoing activity that ensures fuel remains available for sale when needed."

For effective fuel reconciliation, the following needs to be tracked and measured:

- > Opening inventory (ATG or Tank Dip)
- > Amount delivered throughout the day
- > Closing inventory (ATG or Tank Dip)
- > Book sales
- > Recorded POS sales
- > Variance
- > Orders placed

Manual Reconciliation

There are 2 standard formulas that are needed to ultimately establish your variance:



Manual reconciliation is still a very popular method and can make a big difference to your bottom line. Unfortunately, it remains a laborious task that takes time you don't have. It also doesn't address any of your site activities apart from wet stock, such as dry stock management, shift management and pump status.

But as is evident from the above, wet stock reconciliation is a process that assist in providing insight into wet stock inventory.



Download our
Manual
Reconciliation
Spreadsheet
here.



Advantages

- No investment required
- Streamlined reconciliation process
- Visibility of inventory and financial status



Disadvantages

- Input errors
- Manual reporting
- No real time availability of data
- Manual data collection required
- Cannot verify the source of fuel loss or variance

Automated Forecourt Reconciliation

Although manual processes can suffice, if managed meticulously, automated reconciliation is the easiest and most effective way to optimize inventory management processes and site management activities.

Business process automation is the use of technology to execute recurring tasks or processes in a business where manual effort can be replaced and can result in substantial cost minimisation, greater efficiency and streamlined processes.

Technology that helps you manage workflows, automate redundant tasks and helps you to provide a consistent experience to your customers will help you provide superior levels of service and help improve your bottom line.

Choosing the Right Automated Reconciliation Solution

Entry-level Forecourt Automation solutions offer an array of scalable technologies and solutions with various options available in the market today. So where do you start?

If you're new to forecourt automation and automated reconciliation in general, always remember that your current appetite should lead your initial investment.

But be careful not to let your current appetite steal away a chance at future improvement.

Automation not only eliminates human error and provides an array of actionable data and reports, most importantly, it frees up valuable time and resources for you to focus on the management of your entire business, while the technology works for you in the background.

When investigating Forecourt Automation solutions and the role they play in reconciliation, be sure that your chosen platform provides sufficient reporting on stock reconciliation, sales, tank inventory and delivery in line with the needs of your site and your pocket.



Advantages

- Automated process
- On-demand reporting
- Insight into site, wetstock and attendant efficiency
- Upgradable and scalable
- Streamlined processes across multiple areas of forecourt
- Can include additional functionality such as POS and BOS.
- Local or remote access to real time data



Disadvantages

- Requires investment
- Reporting limited to software functionality
- Requires accurate information from equipment on site i.e. tanks must be calibrated, probes and pumps maintained.





CHAPTER FOUR

FORECOURT CONTROL THROUGH RECONCILIATION

FORECOURT CONTROL THROUGH RECONCILIATION

Forecourt Control

The action of taking control sounds so much easier than doing it. To take control requires the power to direct something or someone and, if successful, could be the catalyst to ensure that you stay ahead of the competition and improve your business' performance.

Managing a forecourt presents many challenges and to maintain all elements of the forecourt environment is time consuming and challenging. Taking inventory from tanks, reconciling sales, calculating deliveries and managing attendants are just some of the daily responsibilities of a site manager.

To optimally manage your forecourt, you need control over your wet stock and site operations.

Wet Stock Control + **Site Control** = **Reconciliation**

Wetstock Control

Wet stock management is the process of keeping accurate control of the purchase and sales of all fuel delivered and dispensed on a forecourt. If, during this process, the amount of stock delivered into a storage tank, subtracted by the amount sold is equal to what is left in stock, your fuel stock inventory balances and you've reconciled your wet stock. If not, there's a variance that might be due to losses, either physical, that happens during incidents within a fueling system, or adjusted losses due to poor or inaccurate data.

There are various aspects that form part of Wetstock Management such as Inventory Management & Forecasting, Alarm Management, Compliance Management, Delivery Management and Reconciliation but the intricacy of all of these aspects are dependent on the size and complexity of your operation. As with most things in business, there is never one solution to fit every site or network's needs.

For the site manager or owner, visibility of your stock levels and accurate dipstick measurements are deemed necessary to enable effective control over your wet stock. This is however easier said than done and therefore the industry has shifted towards automating this process.

An Automatic Tank Gauging system monitors your fuel stock, manages your deliveries and addresses fuel losses on your forecourt relating to wet stock, ensuring environmental control, risk management and allows for centralised data management to optimise operational profitability. Different ATG's offer different functionality and the correct solution is dependent on the amount of linked probes and upgradable functionality. This ATG Comparison Sheet might help you choose the most fitting application.

Site Control

Site management encompasses various aspects of back-office systems and forecourt equipment. With so many activities taking place at the same time, it can be a bit overwhelming. Controlling dispensers, attendant tagging, price polls and the c-store, how can you be everywhere at the same time?

Today's forecourt environment and customer expectations have shifted the necessity for a Forecourt Controller to a requirement. It is nearly impossible to maintain effective site management practices without this vital piece of technology. Most Forecourt Automation architectures feature a forecourt controller as the central piece of technology that enables forecourt software to fulfil on its promise. With various makes and models available in the marketplace today there are notably 2 types of Forecourt Control Systems (FCC) that contend for the biggest market share, being a Software Forecourt Controller or an Embedded Forecourt Controller.



Software Forecourt Controller System

- > PC-based forecourt controller
- > Software purchased separately
- > Not as robust as embedded system
- > Built-in modules
- > Offers flexibility



Embedded Forecourt Controller Systems

- > Most popular FCC
- > Embedded web server
- > Eliminates the need for dedicated PC
- > More robust than software system
- > Cost for addition of interface modules
- > Requires less service with remote Service Facilities

But what happens when the controller requires new software or can't be integrated with the rest of your forecourt technologies? When investing in Forecourt Automation solutions, be sure to research the quality, scalability, upgradability and integration capabilities of your forecourt controller whilst closely comparing pricing factors. An integrated solution greatly simplifies installation and training and is more cost effective as it reduces additional hardware components.



“INSTEAD OF USING TECHNOLOGY TO AUTOMATE PROCESSES,
THINK ABOUT USING TECHNOLOGY TO ENHANCE
HUMAN INTERACTION”

Tony Zambito

Forecourt Reconciliation

Once you have control over your wetstock and site operations, reconciliation of your forecourt is possible. Reconciliation allows you to optimise your site operations and continuously improve your business process. The below improvements will assist your forecourt reconciliation process:

Improved Visibility:

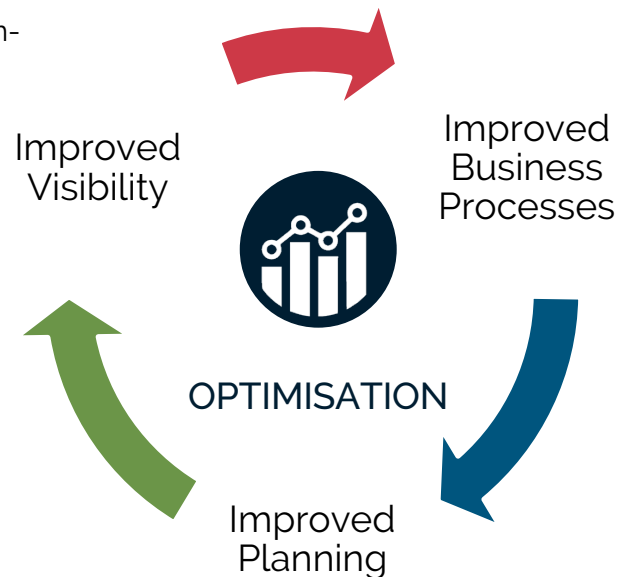
- ✓ Monitoring of pumps & tanks, attendant activities, cash-in-hand and sales of wet and dry stock

Improved Business Processes:

- ✓ Fraud reduction
- ✓ Delivery, sales and reconciliation,
- ✓ Site performance
- ✓ Monitoring of site & attendant sales
- ✓ Downtime monitoring
- ✓ Inventory/stock optimisation

Improved Planning:

- ✓ Delivery planning
- ✓ Managing attendants
- ✓ Preventive maintenance to avoid downtime
- ✓ Process enforcement



Am I Effectively Reconciling my Site?

The below questions will indicate whether you are effectively reconciling your site activities.

* If you answered "No" to more than half of the questions, read about Forecourt Automation.

	YES	NO
Can I fully control my stations activities including inventory, delivery and price reporting?	<input type="checkbox"/>	<input type="checkbox"/>
Have all deliveries been supplied as ordered?	<input type="checkbox"/>	<input type="checkbox"/>
Do I have full control over my employees and shift management?	<input type="checkbox"/>	<input type="checkbox"/>
Can I fully control my stations activities	<input type="checkbox"/>	<input type="checkbox"/>
Do I maximise sales from my local customers (with e.g. discounts) and minimize fuel expenses?	<input type="checkbox"/>	<input type="checkbox"/>
Do I effectively manage my dry goods?	<input type="checkbox"/>	<input type="checkbox"/>
Do I have real time information on fuel utilisation, transactions and losses at my station?	<input type="checkbox"/>	<input type="checkbox"/>



CHAPTER FIVE

FORECOURT AUTOMATION

THE NEED FOR FORECOURT AUTOMATION

The Site Managers Most Immediate Problems

Managing sales and shifts, checking inventories and deliveries and ensuring that your forecourt is safe are some of the few reasons why the forecourt environment is challenging. Although forecourt automation technologies offers the required room for improvement, where do you start?

The following 3 problems are the most immediate for site managers:

1. Detecting or reducing fuel losses.
2. Ensuring maximised uptime.
3. Increasing efficiency and productivity.



PROBLEM

Detecting or reducing fuel losses

- Negative variances could be missed.
- Complications to investigate fuel losses.

Ensuring maximised uptime

- Downtime incurs unwanted costs.

Increasing efficiency and productivity

- Site employees struggle to do their daily tasks



CAUSE

- Theft and fraud.
- Undetected storage tank leaks.
- Delivery discrepancies i.e. shortages in deliveries

- Insufficient maintenance
- Running out of fuel
- Ignoring alarms and signals of forecourt devices (pumps, OPT, ATG etc.)

- Manual dipping & recording of deliveries
- Maintaining site prices
- Managing shifts and sales



COUNTERMEASURE

- On-site investigation (lengthy process, not 100% reliable and not cost effective)

- Regular planned maintenance

- Increase resources
- Outsource to a contractor

3 TYPES OF FORECOURT AUTOMATION ARCHITECTURES

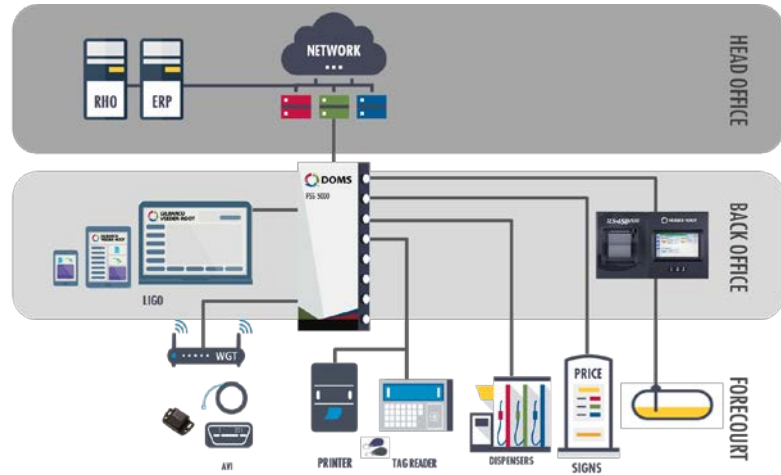
FORECOURT ONLY

Technologies:

- > Fuel POS
- > Forecourt Controller
- > Automatic Tank Gauging

Additional:

Attendant Tagging & AVI



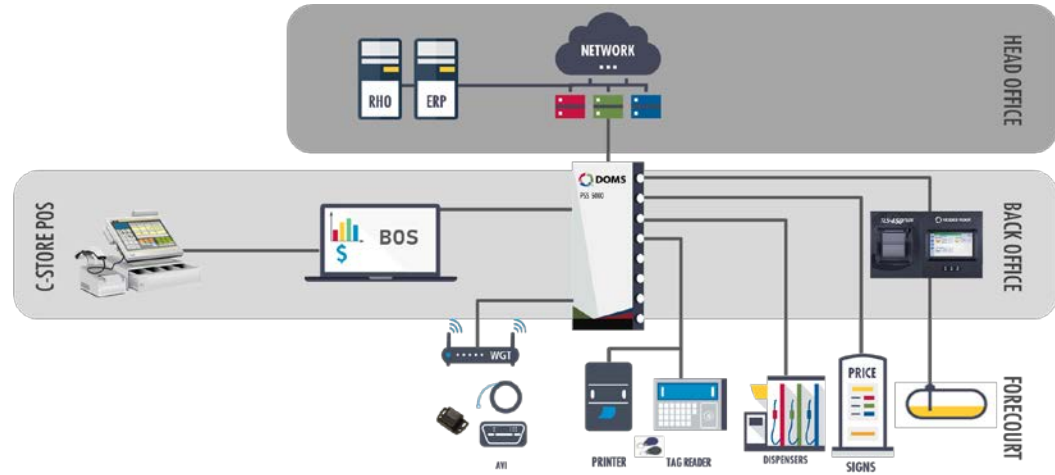
FORECOURT AND C-STORE

Technologies:

- > C-Store POS
- > Back Office System
- > Forecourt Controller
- > Automatic Tank Gauging

Additional:

Attendant Tagging & AVI



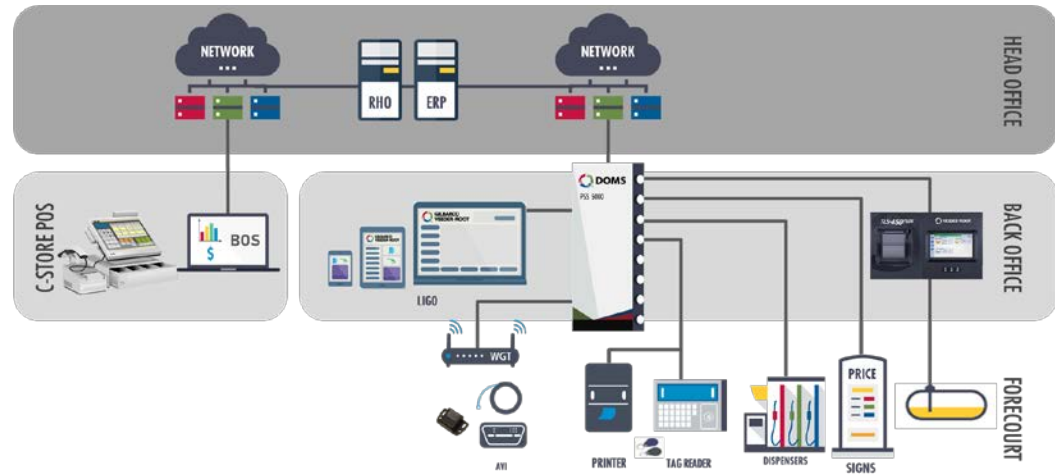
INDEPENDENT FORECOURT AND C-STORE

Technologies:

- > Fuel POS
- > C-Store POS
- > Back Office System
- > Forecourt Controller
- > Automatic Tank Gauging

Additional:

Attendant Tagging & AVI



Forecourt Only



SOLUTION COMPONENTS



Forecourt POS / BOS

LIGO is an embedded Fuel POS/BOS within the PSS5000 forecourt controller and is accessible from any web enable device. It's designed for gas stations without C-Store and consists of BOS (Pricing and product management, dry and wet stock management, user & shift management etc.), POS (Pump & tank real time status & control and dry item sales in the forecourt, as well as reporting through a web portal.



Forecourt Controller

The DOMS PSS5000 has been recognized as the most reliable FCC and best in class performance controller with more than 78,000 units shipped and installed in over 75 countries worldwide. Recently, Gilbarco launched the 6th generation of the PSS5000-BB to comply with future requirements such as cloud connectivity and enhanced security.

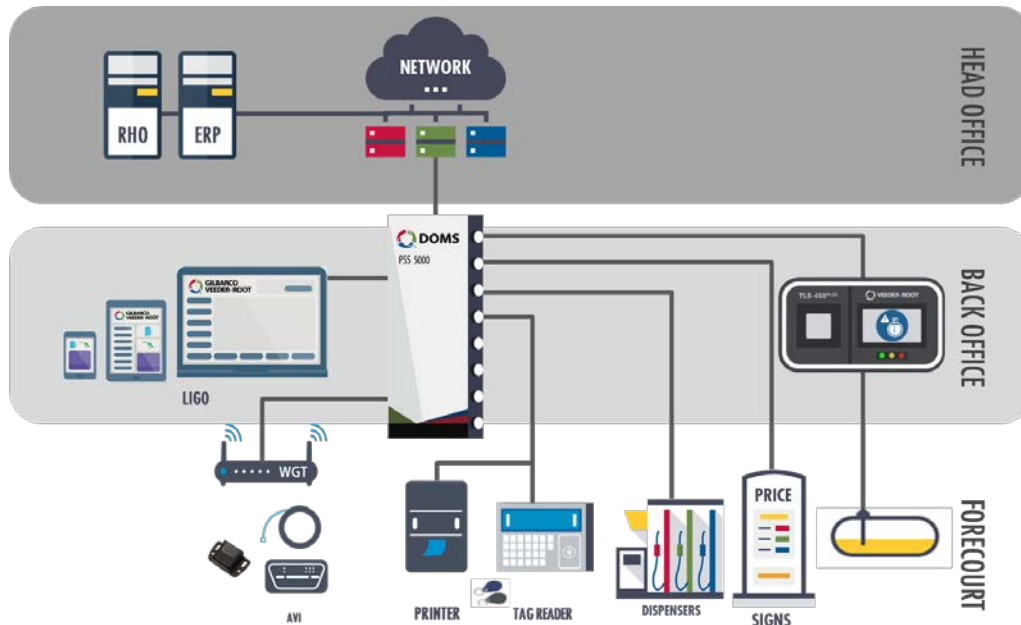


Automatic Tank Gauging

The TLS4 series has become the most installed console in its segment and provides features such as a colour touch screen. It connects tank level status, leak detection levels and network printer. Gilbarco Veeder-Root's innovative solutions have supported industry needs for more than 35 years and the TLS Series of ATG's has the biggest market share in the world with more than 300,000 installed systems.



SOLUTION ARCHITECTURE



Forecourt and Convenience Store



SOLUTION COMPONENTS



C-Store Point of Sale

The C-Store Point of Sale (POS) is a highly flexible system for managing the gas station as well as the convenience store. It allows the station operator to fully control the site, sell items, accept any payment means, redeem loyalty cards, and much more. It also supports wide-ranging C-store activities, including fast food service, bill pay, as well as loyalty card issuance, acceptance, and redemption.



Back Office System

The Back-Office System (BOS) is comprehensive management software designed for retail fuel service station sites with forecourt and convenience store. Covering all aspects of site management and operations, it suits any dealership system whether company-owned, dealer-owned, franchise, etc. and integrates with the C-Store POS, PSS5000 and Retail Head Office.



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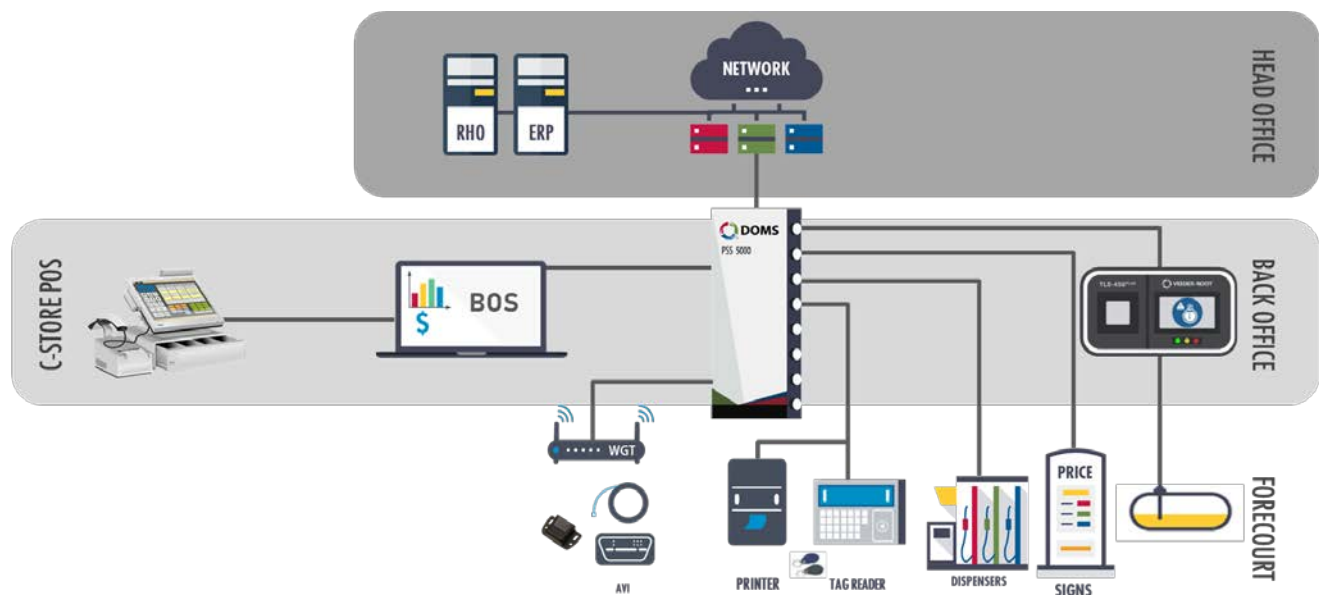


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SOLUTION ARCHITECTURE



Independent Forecourt and Convenience Store



SOLUTION COMPONENTS



C-Store Point of Sale

The C-Store POS is a highly flexible system for managing the gas station as well as the convenience store & **allows full control of the site** to sell items, accept any payment means, redeem loyalty cards, etc. It supports wide-ranging C-store activities including fast food service, bill pay, loyalty card issuance, acceptance & redemption.



Back Office System

The Back Office System (BOS) is comprehensive management software designed for retail fuel service station sites **with forecourt and convenience store**. It covers all aspects of site management and operations and is suitable for any dealership system and integrates with the C-Store POS, PSS5000 and Retail Head Office.



Forecourt POS / BOS

LIGO is an embedded Fuel POS/BOS within the PSS5000 forecourt controller and is accessible from any web enable device. It's designed for the management of **gas stations without a Convenience Store** and consists of BOS, POS and reporting functionality as through a web portal.



Forecourt Controller

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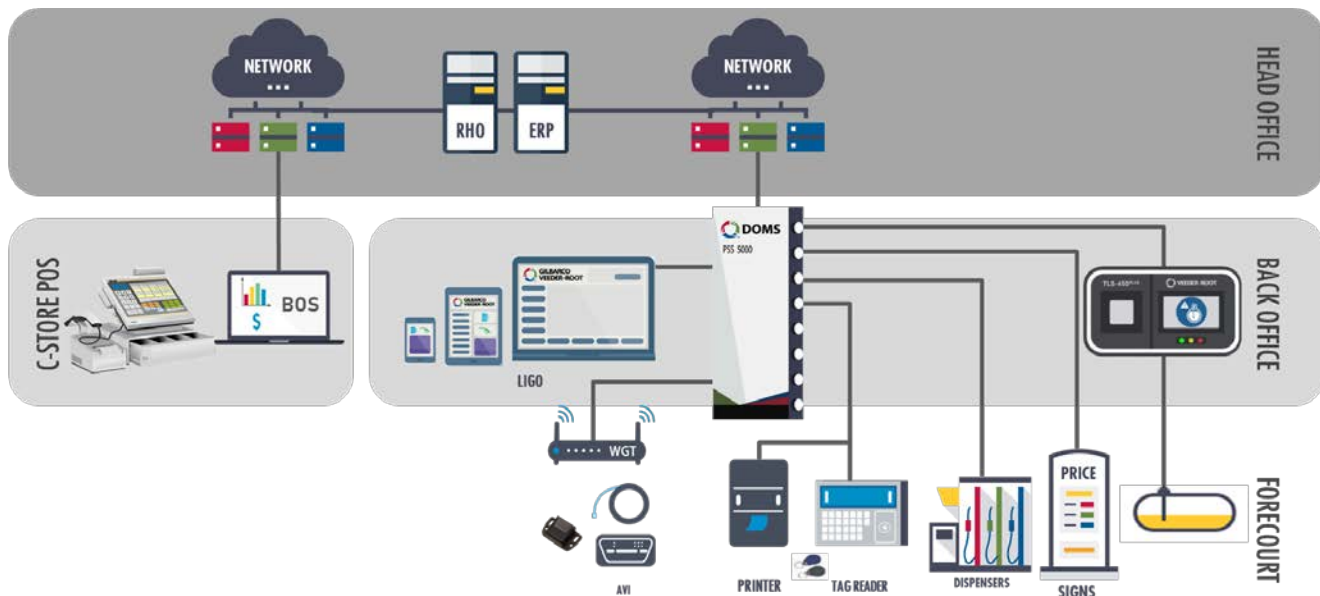


Automatic Tank Gauging

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SOLUTION ARCHITECTURE



AUTOMATED RECONCILIATION

For the Forecourt Only Architecture

An automation solution that enables effective forecourt reconciliation should provide at least the following functionality and is dependent on the architecture of the site. The below requirements are listed for a Forecourt Only architecture:

- > **Manage all aspect of the site; Users, customers, products and attendants.**
- > **Controls the forecourt: dispensers, payment terminals and fuel tanks**
- > **Records all site activity: transactions, inventories, payment and shifts**
- > **Gives local or remote access: PC, smartphone or tablet**
- > **Support site configuration, operational mode and equipment.**



Fuel & Dry goods dry products pricing



Fuel inventory management



Local accounts & customer management



Forecourt devices supportability



Cash, card, coupon or any other method of payment



Shifts, attendants and cash management



Dry item sales in the forecourt and inventory management



**Full site control from OPT or web access with reporting
Flexible business logic & fueling scenarios**



CHAPTER SIX

RECOMMENDATION FOR FORECOURT

RECOMMENDED SOLUTION

What is COMPASS?

COMPASS is a technology bundle that offers an integrated platform for forecourt automation management, automated reconciliation, wetstock control and site control with our TLS4B automatic tank gauge, PSS 5000 forecourt controller and LIGO embedded forecourt management software.

Consisting of Back Office (BOS), Point of Sale (POS) and reporting system, Ligo is embedded within our DOMS PSS 5000 and provides a complete wet stock management solution at site level.

To optimally manage your forecourt, you need control over your wet stock and site operations.



How does it work?

WETSTOCK CONTROL



TLS 4B
Automatic Tank Gauging

- Remove dipstick or manual processes
- Visibility of your wetstock
- Temperature compensated levels
- Electronic snap shot of tank volumes and quality
- Remote access
- Alarm facility – water content, low product, overfills
- High quality, high reliability
- Multiple tanks and products

SITE CONTROL



DOMS PSS 5000
Forecourt Controller

- Installed on more than 75,000 sites and in more than 75 countries.
- Matches all petrol stations, regardless of design and size
- Interfaces to most forecourt equipment using Hardware Interface Modules (HIM's)
- All in one box and highly reliable
- Contains an embedded web server
- Optional host interface for data and alarm collection
- Remote service facilities

RECONCILIATION



LIGO
Point Of Sale Software


- Integrated POS, BOS and Web Portal.
- Access via enabled devices (desktop, tablet or smartphone)
- Works on and off site allowing owners and managers to access information
- Designed for international markets with multi-language support and currency configuration
- Eleven exportable records and reporting
- Configurable with third party applications to receive wet stock transaction data

WHY CHOOSE THE COMPASS BUNDLE?

An Integrated Solution for Simplicity and Supportability

The PSS 5000 is an Embedded Forecourt Controller and eliminates the need and cost for a dedicated PC, as opposed to Software Forecourt Controller Systems.

- > The LIGO Software is already installed in the box.
- > The Compass Bundle comes pre-configured as part of the purchasing cost with 2 HIMs & 3 probes.
- > Gilbarco Veeder-Root offers integrated installation, as all 3 components form
 - ✓ Only 1 trip not 3 (For ATG, FCC and Software installation and set-up)
 - ✓ Same team/technician
 - ✓ Plug & play
 - ✓ Fast calibration

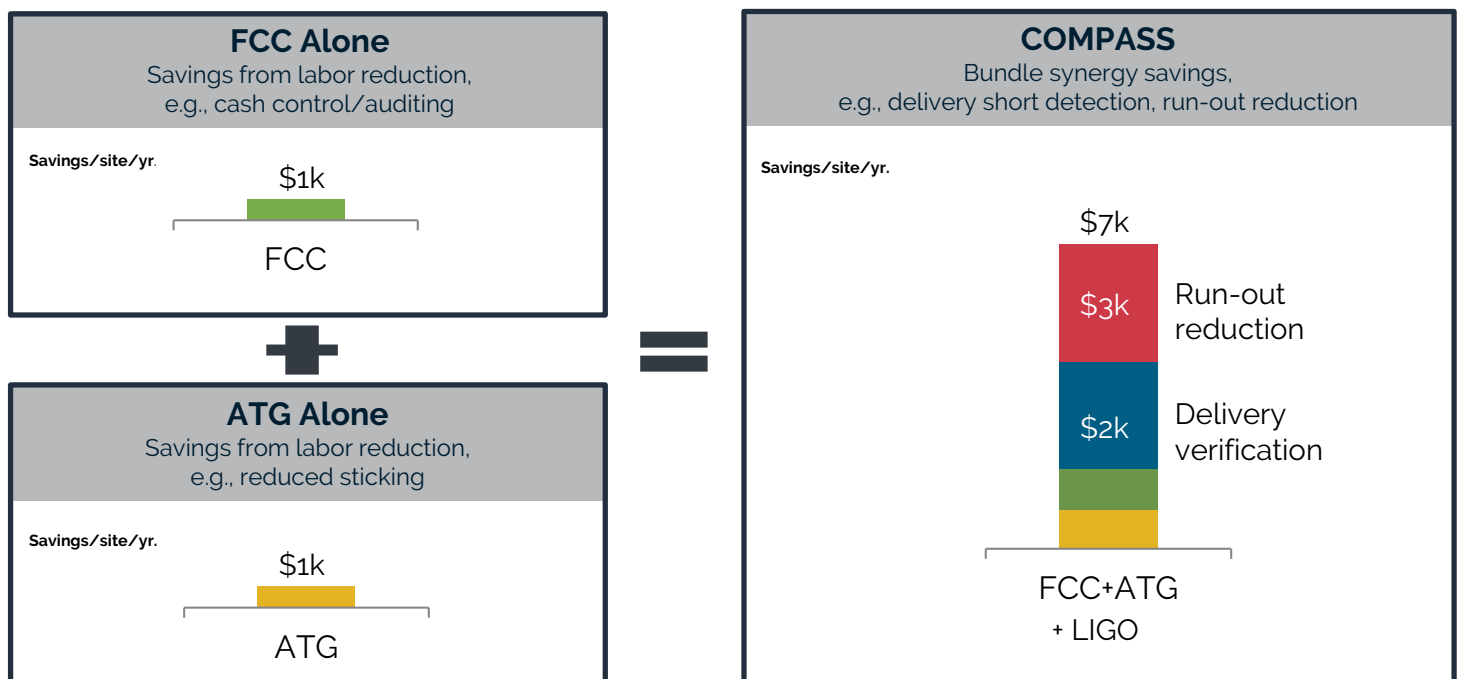


How much YOU could be saving?

Find out with our ROI and Savings Calculator

[CLICK HERE](#)

Saving Case Study on the COMPASS Bundle



WHY CHOOSE LIGO?

Integrated Forecourt Management System



BOS – Back Office System

- Retail fuel service sites management covering all aspects of operations in real-time
- Pricing and product catalogue
- All wet stock management functions
- Employees and shift management
- Customer management with local accounts



POS – Point of Sale

- Pump and tank real time status and control
- Dry item sales in the forecourt
- Integrated part of the BOS



Reporting

- Access locally or remotely using any browser or mobile device
- Real time view on station operations, sales, inventories, shifts
- Easily generate report covering all activity aspects



Download our LIGO Playbook here.



UPGRADING YOUR TECHNOLOGY TO COMPASS

Clear Upgrade Path with Scalable Technology



The below upgrade paths are all eligible for discount

ALREADY INSTALLED

ADDITIONAL TECHNOLOGY REQUIRED TO COMPLETE YOUR BUNDLE



TLS 4 Series ATG



DOMS FCC PSS 5000 + LIGO Software



TLS 4 Series ATG + DOMS FCC PSS



New DOMS HARDWARE + LIGO Software



DOMS FCC PSS






TLS 4 Series ATG + NEW DOMS Hardware + LIGO Software

THE SCALABILITY OF THE COMPASS COMPONENTS

Scalable Deployments to Grow With Your Business

Scalable solutions ensure that your initial investment remains low while ensuring that the technology provides easily upgrading paths to grow with your business.

COMPONENT	OPTIONAL FUNCTIONALITY AVAILABLE
<p>TLS 4 Series ATG</p> 	<ul style="list-style-type: none"> ❑ Up to 12 Mag Plus or Mag-FLEX probes (can be mixed) ❑ Additional Software options available: <ul style="list-style-type: none"> <li style="width: 50%;">→ Business Inventory Reconciliation <li style="width: 50%;">→ AccuChart™ Automatic Calibration with Advanced Diagnostics <li style="width: 50%;">→ Delivery Variance Reporting <li style="width: 50%;">→ SLD Static Tank Testing: CSLD <li style="width: 50%;">→ Hourly Reconciliation Monitoring <li style="width: 50%;">→ Statistical Tank Testing: Optional <li style="width: 50%;">→ Timed Sudden Loss detection <li style="width: 50%;"> <li style="width: 50%;">→ Vapour Recovery Alarm Monitoring
<p>DOMS PSS 5000 FCC</p> 	<ul style="list-style-type: none"> ❑ Up to 12 HIMs available and Cloud ready: <ul style="list-style-type: none"> <li style="width: 50%;">→ Dispenser Control <li style="width: 50%;">→ Performance Monitoring <li style="width: 50%;">→ Wetstock Control <li style="width: 50%;">→ Sudden Loss Detection <li style="width: 50%;">→ Price Pole Control <li style="width: 50%;">→ Veeder-Root Data Logger <li style="width: 50%;">→ Payment Control <li style="width: 50%;">→ 3rd Party Terminals <li style="width: 50%;">→ Attendant Tagging <li style="width: 50%;">→ IFSF Car Wash <li style="width: 50%;">→ Automatic Vehicle Identification <li style="width: 50%;">→ Cloud Connector
<p>LIGO Software</p> 	<ul style="list-style-type: none"> ❑ Extend with Promaks C-Store POS ❑ Extend with Promaks C-Store BOS ❑ Extend with Retail Head office (For network requirements)

READY TO START SAVING WITH **COMPASS?**



To request more information such as pricing and a demo, click on the link below and tell us about your site.

[YES, I'M INTERESTED IN COMPASS](#)

